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TO: Susan Sims **VIA E-MAIL**
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FROM: /s/
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DATE: April 10, 2002

SUBJECT: DSMOA/CA SEMIANNUAL PERFORMANCE REPORT - CONTRACT NO. 00-T2062

The State Water Resources Control Board's (SWRCB) Semiannual Performance Report for the July 1 through December 31, 2001 reporting period is complete. The reporting format follows the CA Process Guide. Please note that each Two-Year Joint CA Execution Plan Status for SWRCB lead facilities is included in the Attachments. We have indicated that Two-Year Joint CA Execution Plan Status for DTSC lead facilities is to be found in the DTSC Semiannual Performance Report.

Pursuant to Paul Lancer's request, we are providing some Success Stories. We identified some of the more significant Success Stories and extracted them from the Semiannual Performance Report.

The Semiannual Performance Report (Word), Attachments (PDF) and Success Stories (Word) are transmitted to you electronically. If you have any questions concerning this electronic transmittal, please call me at (916) 341-5630 or Kitty Hightower at (916) 341-5730.

cc: Stan Phillippe, DTSC
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California Environmental Protection Agency

**STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS
DEPARTMENT OF DEFENSE (DoD) PROGRAM**

SEMIANNUAL REPORT

July 1 – December 31, 2001

per

Contract Number 00-T2062

between the

Department of Toxic Substances Control

and the

State Water Resources Control Board

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**NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF DEFENSE (DoD) PROGRAM
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POINT ARENA AIR FORCE STATION – PCA NO. 16602

Progress:

The overall restoration program has fallen behind schedule with the Two-Year Joint CA Execution Plan. The Air Force contracted with a consulting company to implement monitoring of ground water elevations and operation of the interim remedial system of separate phase petroleum recovery from ground water monitoring wells.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

CENTERVILLE BEACH NAVAL FACILITY – PCA NO. 16603

Progress:

The overall restoration program is behind schedule with the Two-Year Joint CA Execution Plan. The Navy is attempting to transfer the closed facility to USGSA as soon as possible. There is no known future use for the property. Remediation is complete at all sites. The State agencies involved are currently reviewing the draft ROD/RAP for closure and awaiting documentation from the RP that no MTBE is present in the ground water.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

SANTA ROSA ARMY AIRFIELD (SRAA) – PCA NO. 16911

Progress:

The overall restoration program is behind schedule with the Two-Year Joint CA Execution Plan.

Challenges:

Ensuring compliance is an issue because of funding shortfalls in the USACE's budget.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

SANTA ROSA NAVAL AUXILIARY AIR STATION (SRNAAS) – PCA NO. 16912

Progress:

The overall restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Additional work was proposed by USACE staff, however, this work has not been completed.

Challenges:

Ensuring compliance is an issue because of funding shortfalls in the USACE's budget.

Execution Plan Status:

See attachments to this report.

ARCATA AUXILIARY NAVAL AIR STATION/EUREKA AIRPORT – PCA NO. 16914

Progress:

The overall restoration program is behind schedule with the Two-Year Joint CA Execution Plan that was completed by the Regional Board. Budget issues continue to contribute to delays.

Challenges:

No funding available for further site investigation.

Execution Plan Status:

The USACE did not sign the Execution Plan.

**SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF DEFENSE (DoD) PROGRAM
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**HAMILTON ARMY AIRFIELD - GSA PHASE II (INCLUDES LANDFILL #26) – PCA
NO. 16604**

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures were above projected levels because of continued activities associated with the detection of methane gas at Landfill 26. Site-specific details are below:

Landfill 26: Significant additional resources are being used to:

- Further define the nature, composition, and extent of the methane gas detected at, and immediately adjacent to, Landfill 26;
- Evaluate and design a “buffer-zone” aeration trench to intercept gas migrating from Landfill 26 toward the south and southeast boundaries of the landfill; and
- Collect data for incorporation into a human health risk assessment for the Hamilton Meadows housing development portion of the site.

In November 2001, the Regional Board and the USACE agreed the following tasks will be completed:

- Comprehensive control of landfill gas releases from within the landfill; and
- Investigation and remediation of potential ground water and surface water impacts from the landfill.

In light of current world events and budgetary restrictions placed on the USACE, implementation of corrective action will not begin until 2004. However, the Regional Board approved the implementation schedule with the understanding that the installation of the buffer trench would begin immediately. Although several concrete dam portions of the trench have been poured, heavy rainfall in late December 2001 has delayed the full-scale building of the trench.

North Antenna Field: The USACE has made progress and is very close to submitting the Draft RI. With this major milestone, the schedules negotiated in the Execution Plan will improve.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

ALAMEDA NAVAL SUPPLY CENTER ANNEX – PCA NO. 16607

Progress:

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. No work was anticipated at this site. The Regional Board reviewed and commented on the 'Draft Workplan Remedial Design/Remedial Action at Installation Restoration Sites 4 and 6, Alameda Facility/Alameda Annex, Alameda, California'. IR Sites 04 and 06 will be overseen as Underground Storage Tanks (UST) sites with the Regional Board as the lead regulatory agency.

Execution Plan Status:

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

CONCORD NWS – PCA NO. 16608

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are above projected levels due to a newly-assigned Regional Board RPM needing time to become familiar with the site's history. A Site Management Plan (SMP) has been updated, approved by EPA and the Navy, and is currently being implemented. Regional Board staff has provided comments on the Five-Year Periodic Review Assessment for the Litigation Area, the Preliminary Assessment Addendum Area of Concern 1, Addendum to the Draft Final Field Sampling Plan, Quality Assurance Plan Remedial Investigation for Ground Water for Solid Waste Management Unit Sites 1, 2, 5, 7 and 18, and Addendum Field Sampling Plan for Port of Chicago Area sites. The Restoration Advisory Board has been reinstated. Monthly RAB meetings have been held since August 2001.

Execution Plan Status:

See DTSC Semiannual Performance Report for Two Year Joint CA Execution Plan that has "Status" annotated.

HUNTER'S POINT NAVAL SHIPYARD – PCA NO. 16609

Progress:

The restoration program continues to be behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are primarily due to reassignment of Regional Board staff but expenditures are expected to return to normal levels. Documents reviewed by the Regional Board include: Remedial Design for Parcel B, the Explanation of Significant Differences for the Parcel B ROD, and the Draft Ground Water Data Gaps Investigations for Parcels C, D & E. The Navy has submitted a Draft Corrective Action Plan for petroleum hydrocarbons across Hunters Point Shipyard. Based on the study, the Navy proposes natural attenuation as one of the preferred remedial options. The Navy is also preparing a site-wide ground water beneficial use evaluation.

Challenges:

The Navy's initial choice, of more limited beneficial uses of ground water than those listed in the Regional Board's Basin Plan for several of the parcels (operable units), is not acceptable. The Navy's proposed cleanup criteria are inconsistent with the Basin Plan and the Bay's protection. Proper TPH cleanup and reuse criteria need to be established.

The Navy had proposed evaluating existing data and potential remedial decisions for off-shore sediments (Parcel F) but that effort has been stalled. The Navy needs to take the actions necessary to correct whatever potential uncertainty there is in the quality of the existing data.

Execution Plan Status:

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

MOFFETT FEDERAL AIRFIELD – PCA NO. 16610

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan due to Navy delays. Oversight expenditures are above expected levels due to complications in modifying cleanup schedules. A modified Two-Year Joint Execution Plan, agreed to on October 25, 2001, more accurately represents the milestones that may be achieved during the two-year period. However, the modified plan is already out-of-date with respect to Site 25, due to ownership issues that came up two days before the public meeting presenting the Proposed Plan. One of the owners, Mid-Peninsula Open Space District, was left out of the evaluation. The cleanup schedule for Site 25, NASA Storm Ponds, has been delayed by approximately 16 months. There is also potential for a delay in the proposed schedule for Site 27 because of the dispute between the Navy and Cargill, the owner of the North Ditch.

The Navy's San Bruno team has re-evaluated previous Navy work on several sites identifying data gaps requiring additional investigation. At several other sites, the schedule was delayed by re-evaluation performed by the Navy's Southwest Division. For example, the draft ROD for Site 22, Golf Course Landfill, is delayed because the Navy is questioning the inclusion of the whole San Francisco Bay Basin Plan as an ARAR. The Regional Board and the Navy are currently reviewing the specific language in the Draft ROD.

Challenges:

The most significant challenge is developing a schedule for cleanup of Site 25 after information showing a multiple ownership was revealed to the public on August 16, 2001. The proposed schedule for the Site 27 (Northern Channel) field program is in jeopardy of change because of the access disagreement between the Navy and Cargill, the owner of the Northern Channel.

Execution Plan Status:

A Two-Year Joint CA Execution Plan was revised on October 25, 2001. However, it is already behind the schedule for Site 25 (NASA Storm Ponds). See attachments to this report.

RICHMOND NSC (POINT MOLATE) (BRAC IV) - PCA NO. 16612

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan due to Navy delays. In December, a Notice of Violation letter was sent regarding the shutdown of the extraction trench and wastewater treatment plant. The final design of Site 1 landfill soil cover has been completed and construction has begun. The Regional Board completed review of the following documents: Draft Workplan for UST and Pipeline Closure on the Chevron Property; Draft Corrective Action Plan for USTs; Final Fuel Project Action Level Development Report; Characterization of USTs and Fuel Pipelines Final Report; and Appendix D USTs Technical Memorandum

Challenges:

Segregating petroleum pollution from the future stormwater runoff and proper treatment and disposal of the petroleum-polluted wastewater.

Execution Plans Status:

See attachments to this report.

HAYWARD AIR NATIONAL GUARD (HANG) – PCA NO. 16613

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight over-expenditures (timesheet amendments pending) are due to newly-assigned staff needing time to become familiar with the site's history and the poor quality of report submittals. Environmental work is stalled at the remedial investigation and feasibility study phases. Regional Board staff reviewed the No Further Action Planned Decision Document for Sites 4 and 5 and provided significant comments on the document. Sites 4 and 5 will require a significant amount of work before closure will be approved by Regional Board staff. Additional areas of concern, such as Areas D through O, are recommended for further environmental investigation.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

SKAGGS ISLAND NSGA – PCA NO. 16615

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan with respect to the petroleum program. Oversight expenditures are below projected levels because Regional Board staff has been waiting to receive an updated UST database for all former and/or existing petroleum USTs located at the site. The Regional Board reviewed ground water monitoring reports.

Challenges:

Ensuring the Navy completes the petroleum USTs cleanup in time to prevent delay in signing the ROD and/or property transfer.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

TRAVIS AFB – PCA NO. 16619

Progress:

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are above projected levels due to ongoing negotiations with the Air Force regarding three ground water extraction systems pumping treated ground water to the Central and South treatment plants. The negotiations concerned the inclusion of all the substantive requirements specified in the Regional Board's Order for Discharge or Reuse of Extracted and Treated Ground Water Resulting from the Cleanup of Ground Water Polluted by Volatile Organic Compounds at the WABOU and NEWIOU sites. The issue was resolved in November 2001.

Interim ground water remedial actions are continuing at the WABOU and NEWIOU sites. The South Base Boundary Ground Water Treatment Plant and North Base Ground Water Treatment Plant experienced scaling problems that were resolved with the Regional Board.

A ground water remedial design was completed for LF007C, located in an existing wetlands area north of the base. Ground water extraction will limit off-site migration of compounds of concern and will be designed to avoid impacts to the wetlands.

Success Stories:

The EPA, DTSC, and the Regional Board completed negotiations with the Air Force and agreed to sign the final Soil ROD for the WABOU. The ROD will be signed in January 2002.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

POINT OZOL – PCA NO. 16621

Progress:

The restoration program is mostly behind schedule with the Two-Year Joint CA Execution Plan. After a meeting between the Regional Board, DESC, the Air Force, and a Congressional representative, it was agreed that the review and evaluation of remediation system performance will be delayed. Therefore, oversight expenditures are below projected levels because the Regional Board has not received the workplans for remediation system upgrades. During a

meeting between the Regional Board and the DESC, it was mutually agreed that the site-specific risk assessment will not be performed. Biannual Site Monitoring and Sampling Reports and quarterly NPDES Reports have been received and reviewed.

Execution Plan Status:

See attachments to this report.

HAMILTON ARMY AIRFIELD (BRAC 1) – PCA NO. 16635

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Transfer of the Inboard Sites property to the State of California has been delayed pending the Army successfully negotiating all remaining issues with State regulatory agencies. The Coastal Conservancy, the local sponsor of the wetland restoration project, has been in negotiations with the Army regarding an early transfer of the property. The Army began implementation of remedial actions outlined in the unapproved RAP. Workplans were submitted to the regulatory agencies, commented on, and are awaiting approval. The Army has been working closely to provide oversight during the remedial actions with regard to petroleum-related cleanups. The Army is close to completing those remedial actions. The Army has also completed its data collection effort in the Coastal Salt Marsh.

Challenges:

The ongoing challenge is completing the transfer of this parcel to the State-Federal Partnership in a timely fashion to take advantage of the available funding and dredge spoils to construct the wetlands restoration project.

DTSC and Army have an unresolved dispute regarding the issue of area-wide pesticides and runway-related PNAs. Meetings have been held to address these disputes and as yet no agreement has been reached. There is a question as to whether DSMOA dispute resolution clauses will be invoked. The restoration project partners, the Coastal Conservancy and the USACE, San Francisco District, continue to raise issues regarding timing of the transfer and funding tied to the transfer schedule.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

DUBLIN ECS 30 – PCA NO. 16917

Progress:

No work activities were completed by the Army.

Execution Plan Status:

N/A

OAKLAND ARMY BASE - PCA NO. 16921

Progress:

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Over-expenditures were generated by work activities that were not included in the original Execution Plan. The Army has implemented the corrective actions identified in the CAP for all removed USTs according to the schedule. The Regional Board provided comments and approved three corrective action reports for the site.

Challenges:

All the parcels are now being transferred for non-residential use only, and the Army must ensure they remain that way or clean up the parcels to residential levels.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Pan that has "Status" annotated.

HAMILTON NOVATO DoD HOUSING – PCA NO. 16922

Progress:

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Regional Board staff conditionally approved a Corrective Action Plan for remediation and containment of the MTBE plume on the currently-owned Navy portion of the property. The Navy's remedy calls for biosparging the heart of the MBTE plume using ambient air. Air will be injected through closely-spaced aeration points and system performance will be monitored in observation wells located near the down-gradient, Navy property boundary.

Challenges:

Demonstrate that the biosparging remedy selected for the site meets the requirements for plume containment and stabilization.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

GOLDEN GATE NATIONAL RECREATION AREA – PCA NO. 16925

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Over-expenditures were generated by work activities that were not anticipated. This summary includes both Fort Barry and Fort McDowell. Fort Barry and Fort McDowell/Angel Island have

undergone regulatory review of the preliminary assessment for USTs, ASTs, ground water, and historic landfills. A draft workplan for Fort McDowell was reviewed as well.

Challenges:

The USACE needs to compile and provide a concise accounting of UST status and their associated potential adverse effects upon water quality. Due to the multiple military uses that Fort Barry and Fort McDowell/Angel Island have faced during their history, it will be difficult for the USACE to provide a complete site history for these sites.

Execution Plan Status:

See DTSC Semiannual Report for Two Year Joint CA Execution Plan that has “Status” annotated.

ALMADEN AIR FORCE STATION – PCA NO. 16927

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan completed by the Regional Board but not signed by the USACE. No work activities were completed by the USACE.

Execution Plan Status:

The USACE did not sign and Execution Plan.

EAST FORT BAKER – PCA NO. 16929

Progress:

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are above projected levels due to time spent resolving outstanding Horseshoe Bay and other site issues prior to issuance of the ROD. Expenditures will decrease because the Army has completed all of the necessary remedial activities for the onshore and offshore portions of the site. Discussions are being held between the Army and the National Park Service regarding transfer issues.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

BENICIA ARSENAL – PCA NO. 16944

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below projected levels because funding has been given primarily to ordnance clearance activities that the Regional Board does not oversee.

UXO clearance activities were the primary field activity. Regional Board staff did provide comments on the Army's workplan for installation of 20 piezometers to support development of a site-wide hydrogeologic model. Regional Board staff continues to participate in monthly Restoration Advisory Board meetings at which the public has shown a high level of interest.

Challenges:

The USACE needs to: 1) secure funding for submittal of the Building 50 Series Complex investigation report and 2) complete contracts so UST removal workplans can be submitted on schedule.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**CENTRAL COAST REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF DEFENSE (DoD) PROGRAM
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FORMER FT. ORD ARMY BASE/PRESIDIO OF MONTEREY ANNEX - PCA NO. 16622

Progress:

The restoration program is on schedule with all water-related issues in the Two-Year Joint CA Execution Plan. Site-specific details are summarized below:

OU2 Landfill Closure - A pilot project gas remediation system design has undergone operational testing and several potassium permanganate polishing units have been added to remove vinyl chloride. System operation is becoming more consistent and regulatory limits should be met within a year.

OU2 Contaminant Plume – The pump-and-treat system expansion was completed in May 2001, operational testing is complete, and approximately 50 million gallons of water is treated each month.

OU1 Contaminant Plume – The Army is re-examining its previous plan to expand the current pump-and-treat system. A Conceptual Plan assessing OU1 alternative remedies has been delivered to the regulatory agencies and is currently under review.

Sites 2/12 Contaminant Plume – An Operating Properly and Successfully Operational Report is currently under review by regulatory agencies.

Carbon Tetrachloride Plume – The down-gradient contaminant limit has been determined. Monitoring well locations to delineate minor cross-gradient areas of the plume have been approved. The Army is screening cleanup technologies for inclusion in a feasibility study.

The Army and regulatory agencies conduct monthly Community Involvement Workshops to inform the community about progress at the former base. Attendance is off from levels seen in the late 1990s, although the Army has continued to gather community input through periodic interviews, questionnaires, briefing sessions, informational open houses, and a technical review committee. The annual open houses have appeared most effective, as the last two have drawn over one hundred people each. The Army now plans to hold open houses twice each year.

Success Stories:

The Army's contractor has begun implementing a base-wide program to transition from traditional purge-and-sample techniques to use of passive diffusion samplers. With over two hundred ground water monitoring wells on and off-base, the new technology will reduce monitoring costs by approximately 60 percent after full implementation in two to three years.

Regional Board staff has researched passive diffusion sampling and is supporting the Army's proposed transition.

Execution Plan Status:

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

PRESIDIO OF MONTEREY - PCA NO. 16623

Progress:

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. The Final Remedial Investigation Report and Feasibility Study was completed. Long-term maintenance for the closed landfill is on schedule. Site-specific details are summarized below:

Landfill Closure – One post-closure site visit was conducted. Vegetative cover and stormwater runoff control improvements were noted.

Building 262 – One pre-demolition site visit was conducted. This building was removed and a post-demolition site visit conducted.

Execution Plan Status:

See attachments to this report.

FORT HUNTER LIGGETT - PCA NO. 16624

Progress:

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. The investigative phase has been completed and the remedial phase is in the final stages. Action is complete at 26 of the 34 Army Restoration Sites. The oversight budget is under-expended. Cost savings have been possible because of a highly effective working relationship with the facility representatives and because of the high quality of the work performed by the Army's consultant, which has expedited the document review process. Site-specific details are summarized below:

Landfill Closure – Landfill closure activities are nearing completion and quarterly ground water monitoring of the landfill is ongoing.

Landfill Ground Water Investigation – Evaluation of pilot study results for the first three quarters of 2001 indicates that injection of hydrogen release compounds has successfully accelerated the degradation of the contaminants of concern and the size of the plume is decreasing. The Army is preparing a decision document for the implementation of the full-scale remedy.

Building 194 Site – A second pilot study involves the injection of hydrogen peroxide, which is capable of supplying more oxygen than the previously used oxygen-release compound. Evaluation of the results of this study are ongoing and monitoring will continue through 2002.

Success Stories:

Site-specific details are below:

Landfill Closure – The facility’s aggressive pursuit of funding and effective management of closure activities have pushed this project ahead of schedule with an expected completion date of summer 2002.

Landfill Ground Water Investigation – The rate of degradation of TCE and DCE has increased because of hydrogen injection and the lateral extent of the plume is shrinking. Because of the decreasing size of the plume, staff believes that several monitoring wells will be taken out of service in the near future.

Building 194 Site – The facility conducted a thorough characterization of this hydrogeologically complex site and has implemented an innovative and cost-effective remedy capable of significantly reducing the length of time required for cleanup.

Execution Plan Status:

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

VANDENBERG AFB - PCA NO. 16626

Progress:

The restoration program is behind schedule with some activities in the Two-Year Joint CA Execution Plan. The activities listed in the Two-Year Plan were based on the Federal Facility Site Remediation Agreement (FFSRA) schedule at the time the plan was prepared. However, due to funding constraints, the FFSRA schedule was revised and approved in August 2000. In addition, due to outstanding ecological issues resolved during Dispute Resolution, a 2001 updated FFSRA schedule was approved in October 2001. Activities not impacted by the FFSRA revisions are on schedule. Site-specific details are summarized below:

Preliminary Assessment/Site Inspection – One Area of Concern was closed from the Delivery Order 70 Final Workplan and nine Areas of Concern were closed from the Delivery Order 56 Final Report Evaluation Sheets. Approvals were given for the Demonstration of Phytostabilization of Chlorinated Solvents in Ground Water at Area of Concern 59, Delivery Order 56 Field Modification Reports, the Statement of Work at Area of Concern 77, and the Supplemental UST Investigation at Facility 11233/Area of Concern 70.

Non-Petroleum Contaminated Sites – Approvals were given for: two Workplans; six Field Modification Reports; seven Technical Memoranda; two Engineering Evaluation/Cost Analyses; two Removal Action Workplans; one Interim Removal Action Closure Report; and 35 Monitoring Reports.

Petroleum Contaminated Sites – Approvals were given for: one Workplan; two Field Modification Reports; ten Monitoring Reports; one Remedial Investigation Report; one Remedial Action Workplan; and, two UST Closure Reports.

Success Stories:

The Dispute between Vandenberg AFB and the Department of Toxic Substances Control on Toxicity Reference Values to be used in the ecological risk assessments was resolved in October 2001. In addition, 19 Underground Storage Tank sites were closed; 40,000 tons of petroleum-contaminated soil were remediated to below cleanup levels in bio-cells; 32,660 gallons of petroleum-contaminated ground water was extracted and treated at Site 20 UST (152 pounds of hydrocarbons were removed from extracted vapor, and seven pounds from extracted ground water); and 400 cubic yards of PCB-contaminated soil was excavated at Site 35 and disposed off-site.

Execution Plan Status:

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

LOMPOC BRANCH U.S. DISCIPLINARY BARRACKS - PCA NO. 16930

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. The failure to achieve scheduled milestones resulted because initiation of remedial activities was put on hold while the Army negotiated a fixed-price contract for all investigative/remedial activities. Over-expenditures are the result of: 1) the poor quality of the site inspection reports, which necessitated multiple reviews and numerous discussions and written comments; and 2) the Army underscoped the work for the fixed-priced contract, which necessitated numerous discussions and correspondence with the proposing firms and the Army in order to clarify the regulatory requirements, status of the investigative efforts, the CERCLA process, and compliance with the BRAC program. In order to aid in the development of an appropriate scope for the fixed-price contract, Regional Board staff is attempting to clearly communicate outstanding environmental concerns to the Army and its contractor and to achieve concurrence on the process necessary to achieve closure and successful transfer of the property. Site-specific details are summarized below:

Farm Fuel Area – Quarterly monitoring is ongoing.

Former Wood Dump/Landfill – Regional Board staff provided comments on the Final Site Investigation Report in July.

Washrack and Former Outside Greaserack – Regional Board staff provided comments on the Final Site Investigation Report in August.

Scarring Area – No activities have been conducted at this site.

Underground Storage Tanks, Powerhouse Site – No activities have been conducted at this site.

Underground Storage Tanks, Transportation Site – No activities have been conducted at this site.

Challenges:

The Army's investigative effort to date has been less than adequate. Site conditions are poorly understood and many critical data gaps still exist. The new Army contractor will be operating under the constraints of a fixed-priced contract and a very ambitious schedule. As lead regulatory agency, the Regional Board is responsible for ensuring all applicable regulations are followed, including those relating to human health and the environment, water quality, and the CEQA process. Regional Board staff hopes to establish a productive working relationship with BRAC team members and to complete the CERCLA/BRAC process while ensuring remedial actions are protective of the State's resources and human health.

Execution Plan Status:

See attachments to this report.

CAMP ROBERTS - PCA NO. 16931

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Site inspection activities have been delayed and remedial activities have not been initiated because the Army National Guard has not submitted the anticipated documentation to the Regional Board for review. Site-specific details are summarized below:

Base-wide SI – Regional Board staff provided comments on the Draft Site Inspection Report in August. The SI consisted of limited soil sampling at 18 sites and ground water samples at three sites. The ANG is working on a workplan for additional SI activities. The ANG has not submitted an Installation Action Plan to the Regional Board.

Buried Drum Removal, Building 7026 – In July, the ANG removed nine buried drums and contaminated soil adjacent to Building 7026. The contents of the drums appear to be waste oil but, to date, the Regional Board has not received a report on this removal.

Challenges:

The Army's primary objective of the SI investigations to date has been the application of DoD's Relative Risk Evaluation Primer. This investigative approach does not address the Regional Board's concerns regarding protection of water quality objectives. Regional Board staff is working with the ANG to develop followup activities that will address these concerns.

Execution Plan Status:

See attachments to this report.

MONTEREY PENINSULA AIRPORT DISTRICT - PCA NO. 16939

Progress:

The overall restoration program is somewhat on schedule with Year 1 deliverables in the Two-Year Joint CA Executive Plan. Since the USACE first secured project funding in year 2000, they have made substantial progress toward their goals. Year 2 deliverables, however, remain delayed. Site-specific details are summarized below:

UST Area Ground Water Investigation – The USACE is developing a pilot project cleanup proposal to present to the Technical Review Committee.

Former Airplane Repair and Cleaning Facility (Building 17) Ground Water Investigation – The USACE is developing a pilot project cleanup proposal to present to the Technical Review Committee.

Fire Training Area – Initial ground water testing was negative though the USACE has indicated that it will provide further ground water testing as part of its comprehensive site ground water screening. The Regional Board is requiring additional soil remediation work.

Challenges:

Low permeability soils, limited physical access, and limited funding have all made remediation of the petroleum and TCE ground water contaminants a challenging task. Regulatory review is being fast-tracked due to a limited time window for pilot project funding.

Success Stories:

With the assistance of local politicians, the USACE secured \$350,000 in additional year 2001 funding to conduct a Human Health Risk Assessment for the neighboring airport neighborhood. With regulatory assistance, the project was fast-tracked to secure property access agreements, collect and analyze air samples, and report Phase I results to property owners by December 2001.

Execution Plan Status:

See attachments to this report.

**LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF DEFENSE (DoD) PROGRAM
SEMIANNUAL REPORT
(July 1 – December 31, 2001)**

NAVAL BASE VENTURA COUNTY, POINT MUGU – PCA NO. 16632

Progress:

The restoration program remains behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to limited document review and work activities that did not materialize. Several tasks identified for Year One were moved to Year Two. Remediation of the Exchange Gasoline Station continues. Electrokinetic remediation of metals at IR Site #5 is progressing. A lactic acid treatment pilot test at IR Site #24 has been successful and remediation continues.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

NAVAL BASE VENTURA COUNTY, PORT HUENEME – PCA NO. 16633

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to receipt of and less document review than expected. Some tasks identified for Year One were moved to Year Two. The successful operation of a large-scale bio-barrier pilot test continues. The containment and control system for the toe of the 5,500-foot long MTBE plume is operational.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

LOS ANGELES AFB - PCA NO. 16636

Progress:

The Air Force did not prepare a Two-Year Joint CA Execution Plan. Historical analytical data for Building 241 was forwarded by the Air Force and incorporated in the closure package.

Success Stories:

The closure of the former Landfills LF01 and LF18 was accorded by the Executive Officer.

Execution Plan Status:

The Air Force did not prepare an Execution Plan.

DFSP SAN PEDRO – PCA NO. 16637

Progress:

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to work activities that did not materialize after the contractor filed for Chapter 11. The ongoing soil vapor extraction and bioventing system in both the North and South Pump House Areas are operational. The North Pump total fluid extraction has been operational as well. Free-product recovery in the North Pump House Area needs to be optimized to increase recovery efficiency. Semiannual ground water sampling has been conducted in both the Tank Farm Area and the Administration Area. A skimmer pump is used to recover free-product from WCW-8. The Ground Water Treatment system, which consists of a carbon adsorption unit, needs to be maintained and monitored closely to eliminate interruption due to the excursion of sulfide over discharge limits.

Execution Plan Status:

See attachments to this report.

DFSP NORWALK – PCA NO. 16638

Progress:

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. The final facility closure took place in August 2001. All current remediation activities will continue. A Long-Term Monitoring Program is in-place and continues to be implemented for the entire site. Additional site assessment activities, in the Truck Fill Stand Area, have been completed since the closure of this facility and cleanup options are being evaluated. A workplan has been finalized for the assessment of the soil conditions underlying the aboveground storage tanks now that the tanks are empty and out of service.

Success Stories:

The closure of the Norwalk Tank Farm has expedited the soil cleanup process for this site. Numerous activities have been completed to enhance the cleanup systems at the site. Horizontal wells have been cleaned to increase water flow rates and efficiency. New air sparge wells have been installed in the northeast area and a pilot study is being conducted for restarting of the air sparge wells in the southeast area. Five new total fluid wells were installed in the central area and connected to the treatment system to increase free-product and ground water recovery.

Execution Plan Status:

See attachments to this report.

PICO RIVERA NAVAL MCRC – PCA NO. 16915

Progress:

The restoration program consists of two hazardous waste storage areas. A site inspection is being conducted to address a release from two former 1,000 gallon underground storage tanks

(USTs) and to determine if any release occurred at the two hazardous waste storage areas. The Site Inspection Final Workplan is currently being reviewed by the Regional Board.

Execution Plan Status:

N/A

NIKE BATTERY 29 (BREA) – PCA NO. 16942

Progress:

The restoration program is ahead of schedule with the Two-Year Joint CA Execution Plan as most milestones were completed in Year 1. No restoration work was performed during the current fiscal year as the Site's Health and Safety Plans have been delayed.

Execution Plan Status:

See attachments to this report.

OXNARD AIR FORCE BASE – PCA NO. 16943

Progress:

The restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to a combination of limited document review and the original site budget being over-estimated. The site is not a high risk for water quality or direct human exposure. The assessment of the former landfill will continue and a plan will be developed to either cap the facility or excavate and properly dispose of the landfill material.

Execution Plan Status:

See attachments to this report.

NIRF UNDERSEA CENTER - PCA NO. 16945

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are the result of a combination of work activities that did not materialize and funding constraints by the military that resulted in minimal work activities completed. No restoration work was performed at this facility during the reporting period.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

DFSP SAN PEDRO – PCA NO. 16947

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to funding constraints and a lack of work completed by the military because of access restrictions in the endangered species area. The transfer of land to local authorities and its redevelopment are ongoing.

Execution Plan Status:

See attachments to this report.

LOS ANGELES NAVAL MCRC – PAC. NO. 16949

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are the result of a combination of work activities that did not materialize and funding constraints by the military that resulted in minimal work activities completed. No restoration work was performed at this facility during the reporting period.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF DEFENSE (DoD) PROGRAM
SEMIANNUAL REPORT
(July 1 – December 31, 2001)**

RIVERBANK AAP - PCA NO. 16639

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Over-expenditures are the result of new staff needing to familiarize themselves with the site. The Five Year Review process was completed. The Five Year Review proposed: completion of ongoing evaluations of the A zone source area remediation, continued monitoring of the A zone near the landfill, development of contingency plans for expanding the extraction system if migration is detected, and updating the Operations and Maintenance (O&M) Manual for the facility. Regulatory agencies provided comments on the Draft Final Five Year Review (Review).

An RPM meeting, attended by the regulatory agencies, the Army, Lawrence Livermore National Laboratory (LLNL), and CH2MHILL (the Army's consultant) was held at the RBAAP facility on 30 August 2001. RPM meetings for Riverbank AAP are held on a sporadic, as-needed basis. LLNL provided verbal responses to regulatory agency questions on the Chromium Treatability Study Status Report (the LLNL Report). The LLNL Report provided the results of bench-scale tests to evaluate a mechanism for the reduction of hexavalent chromium (Cr VI) to trivalent chromium (Cr III). Results of the treatability study will be used to determine the viability of implementing *In-situ* Redox Manipulation (ISRM) to reduce Cr VI in ground water. The ISRM Workplan was submitted to the regulatory agencies on 20 July 2001 for review and comment. Regional Board staff have submitted comments on both the ISRM Workplan and the LLNL Report to the Army for resolution.

Updated Waste Discharge Requirements (WDR) were adopted by the Regional Board on 27 July 2001. The Updated WDR, required by the Record of Decision to regulate the disposal of treated ground water, contained a temporary effluent limit for nitrates of 40 milligrams per liter (mg/l) with a provision that money saved for treating the nitrates to 20 mg/l will be utilized to characterize for background water quality in the E/P Pond Area. The workplan for the investigation was submitted to the Regional Board on 2 November 2001. Results of the investigation will be used to evaluate effects of the discharger on water quality and possibly to refine effluent limits.

The Army has not yet adequately addressed Regional Board and EPA comments on the ISRM Workplan and the LLNL Report. Regional Board comments primarily pertain to the need for substantive requirements for injection of the sodium dithionite reductant into ground water. Our comments on the LLNL Report questioned whether site sediments, once reduced by sodium dithionite, could remain in reduced state for an extended period of time. The regulatory agencies have consented to allow the Army to proceed with the installation of additional monitoring wells

for the ISRM pilot study. Soil samples collected during the well installation will be used by LLNL to further evaluate the use of sodium dithionite as a reductant for the remediation of Cr VI in ground water.

Challenges:

During the month of November 2001, the City of Riverbank notified the Army that it could no longer accept the 23,000 gallons/month of brine generated by the industrial wastewater treatment plant (IWTP). The Army's contractor, Norris Industries, is presently attempting to identify a licensed disposal facility for the brine. The brine may not be discharged to the E/P Ponds along with the Interim Ground Water Treatment System (IGWTS) effluent, due to the 2500 lbs/month of total dissolved solids (TDS) contained in the brine.

The Army has still not performed a comprehensive evaluation of the ground water extraction/treatment system to demonstrate full plume capture of the cyanide and chromium ground water contamination, as requested numerous times by Regional Board staff. The full-scale extraction/treatment system was installed in 1997.

Quarterly Ground Water Monitoring Reports are routinely delivered up to 30 days later than regularly scheduled submission dates. The Army frequently implements reductions to the monitoring program without regulatory agency concurrence. In addition, the Army provides no responses to agency comments to the quarterly reports as required by Section 7 of the Federal Facilities Agreement (FFA).

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

SACRAMENTO ARMY DEPOT - PCA NO. 16640

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Over-expenditures are the result of poor quality reports needing more review than normal. The Five-Year Review process was completed. Regulatory agencies provided comments on the Draft Final 5-year Review (Review). The Review proposed: (1) continued semiannual monitoring of the Corrective Action Management Unit (CAMU) lysimeter to evaluate previous recommendations regarding the remediation system and remedial alternatives for the South Post ground water plume and determine if any remedial action modifications are required; and (2) to enforce the land-use restrictions established in the South Post ground water land use covenant and the Parcel 2A transfer deed.

Abandonment of the horizontal extraction wells EW-12 and EW-13 was successfully completed between 15 November and 7 December 2001. The horizontal wells were installed in 1996 but only operated for approximately six months due to biofouling. Abandonment Workplans were submitted to agencies during April and July 2001.

A preliminary evaluation of the South Post ground water TCE plume was presented to the agencies during August 2001. The preliminary report presented the results of a FEMWATER numerical ground water model, Mann-Kendall statistical analyses, and Time-Series drawings of monitoring well TCE concentrations. The Army hosted a discussion on the South Post Plume Capture Evaluation on 14 August 2001 to obtain agency feedback on the preliminary results. The discussion was attended by the Regional Board, the DTSC, and the EPA.

Capture of the South Post plume is a requirement of the ROD. When the Army demonstrates capture, the site will attain a “construction complete” status. The Army’s South Post Plume Capture Evaluation was submitted in a report called a “read-ahead package”. Among the most important issues warranting clarification in the read-ahead package were: model applicability, assumptions, sensitivity analysis, uncertainties, calibration, parameter concerns, transport modeling, pumping system optimization (shutting down EW-11), and the incorporation of natural attenuation parameters. Additionally, concerns regarding the incorporation of cyclical data in the Mann-Kendall method for statistical trend analysis were identified. Regional Board staff comments on the read-ahead package were submitted on 25 September 2001. Subsequently the Army requested clarification of Regional Board comments. These were submitted by facsimile and telephone conference call on 4 October 2001. The Army is presently revising the report to address agency concerns.

Several issues were raised and subsequently resolved during the Five Year Review Process. In response to State comments on the Five Year Review, the Army chose to implement a non-standard comment resolution process apparently designed to eliminate State participation in the finalization of this report. Regional Board staff comments on the Draft Final Five Year Review were provided to the Army on 29 August 2001. The comments, requested an explanation of significant differences (ESD) for the release of TCE contaminated ground water to city sewers without treatment and an evaluation of the South Post TCE plume. In response to the Regional Board comments, the Army informally submitted a redline-strikeout electronic version of the document to the EPA, but not to the State. The revisions in the electronic redline-strikeout versions were primarily language changes that did not substantively address Regional Board comments. The EPA provided the document, by email, to the DTSC and Regional Board for comments. Following discussion, the DTSC and Regional Board concurred with the document by telephone on 14 November 2001. The EPA submitted written comments on the redline-strikeout version to the Army on 13 November 2001.

Challenges:

The transfer of Parcel 2B has been delayed. The Parcel 2B FOST was reviewed by the regulatory agencies and concurrence was provided by the EPA and the Regional Board in October 2001. The City of Sacramento has not agreed to some language in the three Land Use Covenants (LUC).

The horizontal well abandonment proved to be difficult. Pressure grouting with lean grout was initially attempted as the method of abandonment at horizontal extraction wells EW-12 and EW-13. The DTSC, Sacramento County, and the Regional Board observed the first attempts at abandonment in early November 2001. Difficulties with grout injection resulted in the postponement of the abandonment activities. Abandonment resumed in early December using a

thinner grout and wider tremie pipe. These modifications allowed the abandonment to be completed and Sacramento County has provided closure.

Quarterly Ground water Monitoring Reports are routinely delivered up to 30 days later than regularly scheduled submission dates. The reports periodically recommend and implement reductions to the monitoring program despite agency non-concurrence. In addition, the Army provides no responses to agency comments to the quarterly reports as required by Section 7 of the Federal Facilities Agreement (FFA).

Success Stories:

The Five-Year Review process is complete.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

SHARPE DDRW – PCA NO. 16641

Progress:

The Installation Restoration Program is slightly behind schedule with the Two-Year Joint CA Execution Plan due to funding limitations in the first half of Year 2001. These funding limitations caused an overall delay in the schedule. The primary submittals reviewed by the Regional Board were:

- Draft FFA Annual Progress Report, October 2000 to September 2001
- Fact Sheet for local residents
- Quarterly Well Monitoring Reports
- Monthly NPDES Performance Monitoring Reports

SVE operations are nearly complete. Sharpe completed two phases of focused extractions in an attempt to remove the remaining VOC mass. Three new extraction wells were brought on-line and should substantially improve containment of VOC plumes that have migrated off-site. Long-term monitoring and remediation of ground water is ongoing. Sharpe continues to operate three ground water extraction/treatment systems to remediate VOC plumes in the South Balloon, Central Area, and North Balloon portions of the Depot. Sharpe has also operated a SVE system for several years to remediate their VOC source areas.

Challenges:

Treated ground water containing arsenic and low concentrations of mercury and hexavalent chromium (potentially) is discharged to the South San Joaquin County Irrigation District Canal. The arsenic is believed to represent local background or anthropogenic levels (from historical pesticide usage). Discharge of treated ground water to land surface is the best disposal alternative but this option is not considered viable in the near-term due to funding limitations for construction of new percolation ponds and potential adverse impacts to containment of their VOC plumes.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

CROW’S LANDING FLIGHT FACILITY - PCA NO. 16642

Progress:

The Installation Restoration Program is significantly (two years) behind schedule with the Two-Year Joint CA Execution Plan due to major Navy-requested schedule revisions during 2001. The Navy decided to reassess all previous investigations and documentation, up to and including the Feasibility Study. The Navy subsequently released a revised Draft Feasibility Study for the Administration Area Plume. Also, the Navy conducted a second time-critical interim removal action (TCRA #2) at the Administration Plume Area consisting of: 1) ground water extraction from a localized area near a suspected source for the contaminants, and 2) off-site disposal of the extracted wastewater. The Navy decided to conduct the TCRA after investigations revealed contaminants in the ground water had migrated closer to the site boundary than previously identified. The Navy also provided a Draft Workplan for Enhanced Bioremediation at the Administration Area Plume, as required by a Regional Board Order.

Challenges:

The TCRA #2 also proposes to inject a substrate material into the ground water to promote enhanced biodegradation of chlorinated solvents. Regional Board legal counsel and staff believe that substrate injections require adoption of Waste Discharge Requirements (WDRs), while the Navy claims they are exempted from State permit requirements at non-NPL site by CERCLA. As a result of the disagreement regarding WDRs, the Regional Board issued a Water Code Section 13267 Order requesting technical reports from the Navy. The Navy does not acknowledge the Regional Board’s Order but has responded by providing some of the required reports and a draft workplan.

Regional Board staff has determined that the proposed remedy for the Administration Area Plume in the revised Draft Feasibility Study, enhanced bioremediation and natural attenuation, is not adequate to satisfactorily address the ground water contamination. The Regional Board staff also requested the Navy conduct a pilot study to show that complete dechlorination of contaminants could occur.

Stanislaus County, NASA, and the GSA continue to work with the BCT team to expedite the immediate transfer of the property and the NASA lease, as soon as possible, in order to comply with special legislation by the United States Congress.

The Navy, on several occasions, has requested expedited (one month) reviews of documents with little or no advance warning. The Navy has refused to negotiate a Federal Facilities Site Remediation Agreement so review schedules have not been negotiated. Often these document reviews were not agreed to in the CA Execution Plan and represent additional unanticipated work for Regional Board staff.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

DIXON NRTF – PCA NO. 16643

Progress:

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. There was no significant progress at this site. The Regional Board is currently reviewing the Record of Findings and No Further Action Request (draft final version) previously submitted by the Navy. It is expected that, once this report is finalized, there will be no further work at this site, unless new, previously unknown areas of concern are discovered.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

LEMOORE NAS – PCA NO. 16644

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Under-expenditures are the result of delayed funding appropriations as well as field work and construction delays. The Navy will submit backlogged reports and eventual report reviews will increase expenditures to more normal levels. The Final First Annual Ground Water Monitoring Report (AGMR) for Sites 5/9 and 14 has been submitted to the Regional Board for review and comment. The scope of work outlined in the AGMR for an additional investigation of potential source areas at Site 14 has been completed. Data gathered from the additional investigation, coupled with continuing quarterly ground water monitoring, will be used to evaluate plume migration at Sites 5/9 and 14.

Installation of the multi-phase extraction (MPE) system at Site 17 has started. The infiltration gallery and extraction wells have been completed. Installation of the surface remediation system equipment is in progress. The initial start-up of the MPE system at Site 17 will require considerable oversight and adjustments in the field before the system operates efficiently.

Regional Board staff received and provided comments for the following: Draft Post-Construction Landfill Certification for the Site 1 Landfill; Focused Feasibility Study for Sites 2 and 4; Record of Decision/Removal Action Workplan for Sites 6 and 7; Draft Field Sampling Plan for the Second Annual Ground Water Monitoring at Sites 5/9 and 14; and the Draft Field Sampling Plan and Quality Assurance Project Plan for the MPE System at Site 17.

Success Stories:

The completion of the Final Base-wide Beneficial Ground Water Use Technical Memorandum will assist both the Navy and Regional Board staff in evaluating cleanup options as well as providing speedier decisions.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

STOCKTON NCTS – PCA NO. 16645

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan, primarily due to the delay in submittal of the RI Reports for OU1, OU3 and OU4 and some UST sites. However, in lieu of the reports that were on the Two-Year Execution Plan, several other reports were submitted by the Navy and were reviewed or are currently under review by the Regional Board. These include Phase II FOST, Phase II Supplemental EBS, DRMO Site Lot 1201 No Further Action Request, Baseline Ecological Risk Assessment Workplan, FSP/QAPP for Leachable Lead at the Pistol Range; UST Investigation Reports at Buildings 817B, 916B and 1316B, Closure Reports – OWS Sites at Buildings 12, 410A, and 508; and Background Ground Water Study Technical Memorandum.

Challenges:

The proposed early transfer of property from the Navy to the Port of Stockton may require a substantial amount of Regional Board and DTSC effort and report reviews within a short time.

Success Stories:

The Phase II FOST and EBS Reports have been finalized which will allow deed transfer of properties. A “No Further Action Required” letter was finalized for DRMO Site Lot 1201. The Update to the Long-Term Ground Water Monitoring Plan was finalized.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

MATHER AFB - PCA NO. 16647

Progress:

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. The regulatory agencies reviewed the Draft Remedial Action Reports that summarize remedial actions completed and propose closure of the Former Oil Water Separator Facilities Site 56 and Site 60. Soil vapor extraction was conducted as a cost-effective alternative to continuing excavation at these sites to address contaminated soil that remained at depth and

beneath structures. In November 2001, the Air Force submitted the draft final version of the Site 60 Remedial Action Report, after making a number of changes to address comments that focused on remedial system performance, site characterization data, and vadose zone modeling. Closure of Sites 56 and 60 is pending completion of the final reports. The Air Force will submit several more remedial action reports as part of completing the overall site closure process.

The agencies completed review of the Draft Closure Report for the Old Transportation Yard. The Air Force conducted further investigation to assess soils containing mainly petroleum compounds detected below a layer of asphalt discovered in shallow soils beneath the excavated drainage layer material, and the liner, removed during Mather Soils Bioremediation Facility (MSBF) closure activities. This area of contamination is considered the result of past vehicle storage and maintenance yard activities conducted prior to paving the site in the mid-1960's, separate from operating the MSBF. The remedial project managers requested additional soil sampling to evaluate potential polynuclear aromatic contamination. The Regional Board also requested the Air Force notify the current land owner of potential impacts to surface water, and the need to implement proper storm control measures, in the event that on-site shallow soils are disturbed during storm events.

The Regional Board issued a letter to authorize re-use of the remaining stockpiled soils treated at the MSBF/Mather Soils Management Area as backfill during site restoration activities at the Site 85 tributary ditch. This activity was not included in the Execution Plan, but approval was granted to facilitate the Site 85 cleanup. The re-use of treated soils as fill material will adequately protect water quality while reducing the overall costs for completing closure of the MSBF/MSMA by eliminating the need for off-site disposal of the remaining stockpiled soils.

The Regional Board completed review of the Draft Informal Technical Information Report at Site 19, the Former Fuel Storage and Distribution/Delivery Depot. This site is identified as a petroleum-only site that is exempt from CERCLA requirements; therefore, the Regional Board is the lead agency providing oversight for remediation and closure. The report summarizes analytical results from several phases of previous investigation, excavation, and soil bioventing remedial activities, and recommends closure at Site 19. The Final Closure Report for Site 19 was submitted by the Air Force.

The regulatory agencies reviewed the Draft Remedial Action Workplan and Preliminary Engineering report for the Phase IV Ground Water Remediation of the Main Base/Strategic Air Command (SAC) Plume submitted 30 July 2001. The workplan presents the design of the Phase IV expansion of the ground water extraction and treatment system for the commingled Main Base and SAC Industrial Area Plumes. The Air Force proposes a design to generally increase plume coverage rather than a design to achieve hydraulic control of the plume at concentrations above aquifer cleanup levels. The agencies have requested that the workplan be revised to explain why the Phase IV remedial action objective is not plume containment.

Challenges:

One of the most compelling issues continues to be the documentation and implementation of "Institutional Controls" required under existing RODs to protect remediation systems and to protect human health and the environment at sites that will not achieve a level of cleanup that

would allow for unrestricted use. The agencies completed review of the Draft Final Supplemental Base-wide ROD. The DTSC initiated a dispute on the Draft Final ROD to formally request the Air Force modify this ROD to describe the institutional controls, including implementation and enforcement, required at Mather.

The issue of the objective of the Phase IV design of the ground water treatment system was elevated to management this year as part of the Alternative Dispute Resolution (ADR) Process initiated in January to facilitate resolution of a number of Water Supply Contingency Plan issues that remain in dispute. The unit supervisors (ADR Level Two) prepared a "Joint Issues Statement" to further elevate six issues for resolution.

During ADR meetings, the remedial project managers requested the workplan evaluate a Phase IV design to achieve hydraulic control of all constituents of concern to aquifer cleanup levels to adequately protect beneficial uses and to substantively comply with the Basin Plan and the ROD. The Air Force was to explicitly identify any differences in the proposed Phase IV design with respect to a design objective of hydraulic control. Because the workplan presents no such evaluations, the regulatory agencies believe the Air Force has not adequately demonstrated the basis for the more limited Phase IV design contained in the workplan.

The lack of regulatory approval of the Phase IV Workplan could cause significant delay of Phase IV ground water remediation activities. In the interest of moving forward to augment off-base extraction in areas that will minimize down-gradient plume migration, the Regional Board accepted the proposed off-base extraction well locations. The Air Force was requested to re-examine the remaining proposed Phase IV extraction well network with respect to a design focused on achieving plume control at concentrations greater than cleanup levels. The regulatory agencies have emphasized that the workplan must be adequately revised to demonstrate how the full-scale treatment system will be designed, including off-base plume control, to remediate the plume to aquifer cleanup levels and to address down-gradient migration of pollution to and beyond water supply wells.

Success Stories:

The Regional Board, acting as the lead agency for petroleum sites, closed underground storage tank (UST) Sites 25, 26, 27, 28, 30, 31, 33, 38, 40, 41, 42, 49 and UST #s 10075 and 10550. The Air Force conducted remedial activities to address potential contamination after removal of the former USTs. These included removal of the dispenser islands, removal of product and vent lines, soil excavation, confirmation sampling and restoration of the sites. Further investigation of ground water was conducted at UST Site 26 and vadose zone modeling was conducted to characterize potential fate and transport of residual contamination at Sites 30 and 31.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

MCCLELLAN AIR FORCE BASE - PCA NO. 16648

Progress:

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. In November, the Senior Executive Committee met and reached agreement on a resolution to the VOC Proposed Plan Dispute. The dispute resolution will allow the Air Force to proceed with the development of the VOC Proposed Plan and ROD.

A Non-Time-Critical Removal Action for PRL-33 was completed and a draft closure report was issued in October. This removal action will allow transfer of this high priority reuse site. A Removal Action Workplan Addendum for the CS 10 Time-Critical Removal Action was completed and implementation began in December. This time-critical action is necessary to address radiological concerns following the discovery of low-level plutonium and radium wastes during a limited investigation of drums buried at this confirmed site. Up to 1,000 drums may be buried at CS-10. The cost of the CS-10 Removal Action is estimated at approximately \$38 million.

A Remedial Action Workplan for the OU B1 Drainage Ditch was completed in November. The cleanup of these sediments is being done as a remedial action under a requirement for the 1993 Interim ROD for OU B1. This Interim ROD calls for the capping of PCB contaminated soils at OU B1 and the removal of PCB contaminated sediments from the drainage ditch leading from OU B1 to Magpie Creek. The first phase of soil removal was initiated in November. Final cleanup will not be completed this year, however, due to the start of seasonal rainfall. Final RI Reports have been completed for OUs A and C1.

A Final Site-Specific Supplemental Environmental Baseline Survey (SSSEBS) and Findings of Suitability to Lease (FOSL) were completed for the off-site property at the Sacramento River Dock. This document completes the SSSEBS and FOSL process at McClellan on schedule. The Final SSSEBS and FOSL documents allow leasing of facilities covered in those documents by the County of Sacramento.

Challenges:

Now that the VOC Proposed Plan Dispute has been resolved, the Air Force will proceed with the next steps for completing the VOC Proposed Plan and ROD. The Air Force must first prepare a VOC Feasibility Study Addendum to address two outstanding issues. These issues are: addressing institutional controls in a detailed manner in the various feasibility study alternative evaluations; and, addressing indoor air inhalation risks from shallow VOC contamination.

Hexavalent chromium detected in the Ground Water Treatment Plant effluent has exceeded or is very near effluent limitations for discharge into Magpie Creek. An investigation into the hexavalent chromium source is currently being conducted. The Regional Board issued a Notice of Violation in August for hexavalent chromium violations and failure of the Air Force to follow approved sampling protocols. Continued violations of effluent limits could result in enforcement actions by the Regional Board. Failure to address hexavalent chromium discharge violations could result in disruption of the ground water treatment program.

Success Stories:

- Continued operation of the ground water treatment system;
- Two new SVE systems were brought online;
- Fourteen operating SVE systems have removed over one million pounds of contamination to date;
- Completion of SSSEBS and FOSL for the Sacramento River Dock facilities completes the SSSEBS and FOSL process on schedule and represents a major milestone;
- Completion of Remedial Action Workplan for OU-B1 Drainage Ditch, and implementation of field work to remove soils contaminated with PCBs;
- Completion of the Field Sampling Plan for Radiological Investigation of the Unincorporated Area;
- Completion of the Field Sampling Plan Addendum for Low-Lying Areas;
- Completion of the Base-wide Removal Action Workplan for SVE;
- Completion of 1 Site Investigation Workplan for 1 UST;
- Review and acceptance of four Radiological Final Status Survey Reports for four buildings (releases these buildings for unrestricted reuse); and
- Final RI Reports have been completed for OUs A and C1.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

CASTLE AIR FORCE BASE - PCA NO. 16649

Progress:

The Installation Restoration Program is generally on schedule with the Two-Year Joint CA Execution Plan. The Source Control Operable Unit (SCOU) Record of Decision, Part 1, is nearly finalized. The SCOU Record of Decision, Part 2, has been submitted for review and comments from the regulatory agencies have been issued. The Comprehensive Base-wide Remedial Investigation/Feasibility, Part 2, has been submitted to the regulatory agencies for review. The Focused Feasibility Study for the Fire Training Area #1 is near finalization.

Startup of the Phase 3 Ground Water Treatment Plant has revealed that TDS, chloride and calcium levels in the treatment plant effluent exceed discharge standards for re-injection into the lower sub-shallow aquifer. About 40 percent of the treated water is disposed to that aquifer. The Air Force is currently studying the problem to determine the best solution.

Challenges:

As at Mather AFB and McClellan AFB, issues regarding land use controls and deed restrictions have not been resolved. These issues are not unique to Castle but exist between the Air Force, EPA and the State for all closing bases in California. In an attempt to move other projects forward, the landfills with waste closed in place have been removed from the SCOU Records of Decision and will be the subject of a separate Record of Decision.

Success Stories:

Four additional SVE systems have been constructed and are operating.

Two monitoring wells have been converted to extraction wells and remote ground water treatment systems were constructed at these wells. One system is solar powered and is expected to speed up ground water plume remediation. The other system is located off-base in an area where there was no ground water plume containment.

The Operable Unit #1 ground water treatment plant was removed from service from June to September in order to conserve electricity during the California energy crisis. An estimated 260,000 kilowatt-hours of electricity was saved. The plant treats shallow ground water extracted from nearby source areas and was not necessary for plume containment. This temporary shutdown did not affect plume containment or control and the treatment plant was successfully restarted in September.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has “Status” annotated

BEALE AFB – PCA NO. 16650

Progress:

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. The following reports, considered major Execution Plan accomplishments, were reviewed and commented on.

- Site 1 Informal Technical Information Report. An investigation was conducted to better define the extent of VOCs near a number of off-site domestic supply wells. This investigation determined that data gaps still exist to determine the extent of VOCs. The investigation also identified a new problem in this area. Preliminary information (water elevation data) suggests that the supply wells may be capturing the VOC plume. Further investigation (installation of piezometers and additional plume definition) is scheduled.
- Long-Term Operation and Maintenance Reports (2nd quarter 2001 and 3rd quarter 2001 for the SVE and Bioventing Sites) and Annual Ground Water Monitoring Report. Regional Board comments focused on identifying specific sites that require additional monitoring wells to evaluate (provide adequate compliance monitoring) rising water elevations. As a result of the rising water elevations, a number of sites have monitoring wells with well screens submerged (20 feet or more). Comments also focused on determining if the Air Force has completed adequate monitoring to finalize RI/FS Reports (i.e., Sites 1, 10, 13 and 32). The ground water analytical data for these sites will be complete enough to support the development of remedial alternatives.
- Site 10 and 32. These investigations (and preliminary analytical results) suggest: 1) that all significant source areas have been identified at Site 32; 2) that Site 10 is not a DNAPL

source area as previously suspected; and 3) ground water flow conditions are much more complex at Site 10 than anticipated, making it difficult to develop remedial alternatives.

Remedial investigation data for Site 32 (completed in the summer of 2001) suggest that principal VOC vadose zone source areas have been identified. Site 32 is a very large area and it was unclear whether the ground water plume should be addressed as one large plume or several site-specific plumes. This new information will allow the Air Force to move forward and develop remedial strategies that can either focus on individual site plumes or focus on multiple site plumes. Management of site-specific plumes would be more efficient (and cost effective) if it would reduce cleanup times and lead to earlier site closures.

Challenges:

Challenges include developing remedial alternatives at several sites (i.e., Sites 1 and 10). As mentioned above, the capture zone of the supply wells may be overlapping the Site 1 VOC plume. It was anticipated that further investigation of the VOC plume near the western perimeter would be complete by the end of 2001. However, this new information will require the Air Force to expend more funds on Site 1 (and Site 32) to evaluate and design an adequate ground water remedial system. The level of Air Force funding for this site (approximately \$6 million per year), which is not anticipated to change over the next three years, and new priorities facing the military since September 2001, may make it difficult to meet projected ROD completion dates.

Success Stories:

The Biotreatment Cell Facility (which provided bioremediation of excavated soil from over 900 UST sites that were closed) was decommissioned and will be closed following transfer of remaining treated soil to a temporary holding area. The Regional Board will rescind the WDRs for this facility when closure activities for this site are completed. Use of this facility over the last five to six years saved the Air Force significant amounts of money that would have gone toward contaminated soil disposal fees. Treatment of the soils also lead to cost savings as the treated soils were reused as foundation material in the construction of the landfill caps.

Execution Plan Status:

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

TRACY DDRW – PCA NO. 16651

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan due to funding limitations in the first half of Year 2001. The primary report submittals reviewed by the Regional Board were:

- Draft Final ROD Amendment
- OU-1 Pesticide Design Report - 95% Submittal
- Final OU1 Ground Water: Interim Remedial Action Report

- Draft Final Small Excavations and Wet Season Controls RAR
- Final Explanation of Significant Differences (SWMUs 2, 3, 7, 33)
- Final Designs Construction QA/QC Plans Remedial Action Workplan
- Quarterly Well Monitoring Reports
- Monthly Performance Monitoring Reports for WWTP/GWTP

Long-term ground water monitoring and extraction/treatment of ground water is ongoing. Tracy continues to operate two ground water extraction/treatment systems to remediate their VOC plume. SVE began operation in the first half of 2001 and continued through this reporting period.

Installation of ground water monitoring wells on the off-site Robertson property were completed. Investigative work using CPT technology was also conducted along Banta Road adjacent to the Alvarez property. The ground water “grab” sampling results indicate TCE has probably migrated beneath the Alvarez property at concentrations exceeding its MCL of 5 µg/l.

Discharge of treated ground water to the overland flow pilot study area continued. Due to scaling problems and failure of the effluent pump, discharge to the study area was limited and disposal via overland flow could not be assessed as a long-term disposal option. DDJC-Tracy has requested a 12-month extension on the pilot study.

Challenges:

Management of treated ground water continues to be a significant concern because existing infiltration galleries are not adequate for continuous discharge near design capacity. While the limited data collected from the overland flow pilot study is promising, it is still unclear whether this is a viable option for long-term disposal.

Operation of the extraction well field and treatment plants at design flow rates has not occurred. The severe buildup of scale in the treatment plant TP-2 air-stripping tower was removed and the failed effluent pump was replaced in November 2001, so this plant may be able to operate near design capacity now. However, treatment plant TP-1 continues to run in manual mode (offline when plant personnel are not on-site) because communications between the plant and extraction wells are not functioning. DDJC-Tracy is evaluating potential corrective actions for TP-1, but funding limitations may delay implementation of these actions.

Monitoring wells are needed on the Alvarez property in order to completely define the extent of their TCE plume east of the Annex. DDJC-Tracy has been unable to negotiate an access agreement with the Alvarez family since they performed a CPT study on their property in the mid 1990's.

Success Stories:

SVE began in early 2001 after a one-year delay due to funding limitations. Several of the SVE circuits have already removed more mass than originally estimated during the design phase.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

DAVIS TRANSMITTER - PCA NO. 16652

Progress:

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are low but this was anticipated. This is a relatively small site with sporadic report submittals. Most of the budget for this FY is to be used for the review and comment of the Proposed Plan. During sampling to close out the site of former diesel USTs at Building 4710, additional diesel contamination was discovered and will be investigated. The bioventing system installed to remediate the previously known diesel contamination is not adequate to address the newly discovered diesel contamination.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

RIO VISTA ARMY RESERVE TRAINING AREA – PCA NO. 16950

Progress:

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. The Army continued its accelerated pace for the site investigation and remediation as part of an Army Pilot Program on the privatization of site cleanups. In addition to conducting two supplemental soil removals requested by the State, and finalizing the Risk Assessment, Water Quality Assessment, and Supplemental Remedial Investigation Report, the Army issued a Draft Final No Further Action Record of Decision/Remedial Action Plan in December for public review. All activities were conducted on an expedited basis with condensed review timeframes for the regulatory agencies.

Challenges:

The site closure schedule of January 2002 allows Rio Vista to remain on a fast-track approach but continues to be a challenge to both the Army and the regulatory agencies. Rapid timeframes, under which the Army’s consultant has produced reports to meet the schedule, has resulted in poor quality products, which have required extensive review, comment, and revision. Additionally, project staff turnover within the Army’s consultant has impacted project continuity.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

TITAN MISSILE SITE 1-A, (LINCOLN) – PCA NO. 16951

Progress:

The Installation Restoration Program is slightly behind schedule with the Two-Year Joint CA Execution Plan. The USACE continued operation of a pilot study ground water extraction/treatment system under a Regional Board-adopted NPDES permit for the off-site TCE plume. The project started up in June 2001 as part of the Feasibility Study (FS) to determine the final remedy for the plume. The Army continued to investigate and delineate a small portion of the off-site TCE plume, conducted a vapor extraction test from the ground water extraction trenches as a part of the FS, and issued a Remedial Investigation Report in December. The USACE has committed to identify data gaps in the 1997-2000 Remedial Investigation, conduct a Supplemental Remedial Investigation, and provide a Feasibility Study, while coping with a reduced program budget.

Execution Plan Status:

See attachments to this report.

OLD HAMMER FIELD (OHF) - FUDS – PCA NO. 16953

Progress:

A Two-Year Joint CA Execution Plan has not been completed by the Regional Board, thus no true gauge on progress exists. However, the OHF Steering Committee and the Regional Board have now agreed to an Execution Plan schedule (based on a recently completed Enforceable Project Schedule), which has been incorporated into a Two-Year Joint CA Execution Plan with a July 2002 start date.

The Steering Committee is reviewing proposed health-protective water quality standards as trigger levels for a water supply contingency program and associated comments regarding risk calculation methods from the Human and Ecological Risk Division of the DHS.

Field work for the down-gradient Ground Water Investigation now defines the extent of the ground water plume. The Steering Committee submitted a revised ground water monitoring schedule that was approved and commented on by Regional Board and DTSC staff.

The source-area remediation pilot study, involving injection of a potassium permanganate solution, is underway.

Challenges:

The USACE continues having difficulty gaining Right-of-Entry agreements for the Area 13-1 Investigation. Regional Board staff has prepared an enforcement letter, for site access, that is under review by DTSC and Regional Board counsel.

Citing a perceived lack of progress, the Environmental Protection Agency (EPA) is considering listing OHF on the National Priorities List (NPL). EPA's concern should be alleviated with the

recent completion of an Enforceable Project Schedule and a forthcoming Steering Committee internal agreement regarding their funding commitments.

Success Stories:

After years of negotiation, an Enforceable Project Schedule has been completed and approved and is awaiting formal signatures by all Cooperative Agreement parties. The schedule will become an Amendment to the 1993 Potentially Responsible Party Agreement for OHF.

Execution Plan Status:

The USACE did not participate in the completion of an Execution Plan.

TITAN MISSILE SITE 1-C, (CHICO) – PCA NO. 16954

Progress:

The Installation Restoration Program is seriously behind schedule with the Two-Year Joint CA Execution Plan. These delays are primarily due to property access problems between the USACE and the current property owner. Regional Board staff conducted discussions with the Army to continue funding the project, and with a potential property buyer to gain access and an agreement to finish the project.

Challenges:

Closure of several USTs and the abandonment of several large water supply wells are the only remaining tasks to be completed. The USACE has not completed the final phases of the cleanup, due to delays in acquiring access to the site from an uncooperative landowner. Additionally, program funding cuts within the USACE threaten to delay the closure. The Regional Board offered assistance to the USACE to obtain access. The USACE recently informed the Regional Board that they could not get access, and, therefore, were not going to fund the project. The Regional Board is continuing discussions with the USACE regarding site access and funding.

Execution Plan Status:

See attachments to this report.

TITAN MISSILE SITE 1-B, (SUTTER BUTTES) – PCA NO. 16955

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. The USACE has completed abandonment in place of the underground storage tanks (USTs), and decommissioned the water supply wells. The USACE has agreed to study the high levels of lead in water standing in Silo 1, investigate the lead source, presumed to be the result of battery salvaging operations, and assess the feasibility of source removal to reach the final cleanup levels protective of human and ecological health, and water quality.

Challenges:

Remediation activities within the abandoned missile facility itself are difficult to conduct and very expensive due to the poor condition of the interior of the facility and physical hazards, such as friable asbestos and debris left over from the salvage operations. The USACE has committed to studying lead in the flooded Silo 1, while coping with a reduced program budget.

Execution Plan Status:

See attachments to this report.

DQ UNIVERSITY – PCA NO. 16959

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan by six months due to subcontractor reporting difficulties and lack of in-house technical staff at the USACE. Based on the results of the site investigation, the USACE proposed long-term ground water monitoring for a natural attenuation study at this site.

Challenges:

The USACE has committed to resume quarterly ground water monitoring and meet with Regional Board staff to lay out a more rigorous approach than has been previously accomplished for future investigations and reports. The challenge will be to achieve progress with a reduced budget and shortage of in-house technical staff that have replaced the subcontractor.

Execution Plan Status:

See attachments to this report.

**LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF DEFENSE (DoD) PROGRAM
SEMIANNUAL REPORT
(July 1 – December 31, 2001)**

SIERRA ARMY DEPOT (MAIN BASE) - PCA NO. 16655

Progress:

The restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. Review of the following documents was provided by Regional Board staff:

- Draft Abandoned Landfill Final and Southern Sites Area, Plume Migration Assessment Workplan.
- Draft Building 210 Area Zero-Valent Iron Pilot Study. Follow-on Enhanced Biodegradation Pilot Study and Additional Data Collection Workplan
- Annual Ground Water Monitoring Report for the TNT Leaching Beds Area
- Draft Monitored Natural Attenuation Effectiveness Review for the TNT Leaching Beds Area
- Draft Upper Burning Ground and Old Popping Furnace- Additional Data Collection Workplan.

The initial laboratory results for the zero-valent iron pilot study shows a reduction in TCE plume concentrations by one order of magnitude.

The unexploded ordnance investigation at Hansen's Hole was completed.

Challenges:

The Building 210 TCE plume with concentrations above 1,000 ppb is now greater than 2,000 feet long and extends beneath the Doyle Wildlife Area. This was confirmed by additional drilling and a direct push investigation. The ground water extraction system continues to pump at approximately 110 gallons per minute, although the high TDS water (>1,000 ppm) continues to foul the screens.

The Southern Sites Area TCE plume has been detected in Public Supply Well PW-02, and was further delineated during the October drilling program. Contingency plans for new water supplies are being developed by the contractor.

Execution Plan Status:

See the DTSC Semiannual Performance Report for the Two-Year Joint CA Execution Plan that has "Status" Annotated.

FORT IRWIN NATIONAL TRAINING CENTER - PCA NO. 16656

Progress:

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Under-expenditures are the result of many deliverables not being received. Regional Board staff has reviewed the Engineering Report for Site FTIR-01, also known as the older portion of the Active Landfill. A workplan to implement additional site investigation at FTIR-01 is in the process of completion. The Army has submitted but the Regional Board has not yet reviewed the following: FTIR-27&28 Verification Sampling; FTIR-38&40 RI/FS Draft Vol 1,2; FTIR-07 & 08 RTC; and FTIR-32A & 39 RTC.

Challenges:

Improvement in communication among State regulatory and Army participants continues to be a major obstacle. The quarterly meetings among State staff and Fort Irwin personnel, proposed in the previous reporting period, have not materialized.

Execution Plan Status:

See the DTSC Semiannual Performance Report for the Two-Year Joint CA Execution Plan that has "Status" Annotated.

MCLB BARSTOW - PCA NO. 16657

Progress:

The restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. Expenditures are lower than expected due to work which did not materialize but should increase in the second half of the FY. The Navy began operating the air sparging/soil vapor extraction (AS/SVE) system at CAOC 6 (Nebo). Ground water sampling at both Yermo and Nebo sites continued with a special effort to identify each monitoring well using a global position system and begin using a geographic information system. The MCLB completed designs for and began constructing two replacement ground water extraction wells for the OU-1 (Yermo) extraction system. In addition, new carbon units are being installed to ensure that methyl-tertiary-butyl ether (MTBE) detected in ground water is removed before the treated water is infiltrated at galleries adjacent to the MCLB drinking water wells. Therefore, the OU-1 extraction system is expected to restart in early 2002.

Regional Board staff approved the Landfill CAOC 35 Construction Completion Report and requested post-closure monitoring to continue. Final Remedial Actions Reports to close OUs 5 and 6 are under review by the regulatory agencies. Mass removal of VOCs from soil and ground water continues at sites CAOC 16 (Yermo – OU-1) and CAOC 6 (Nebo South OU-2).

Regional Board staff participated in two Installation Restoration RPM meetings on July 26 and December 7, 2001 and a Restoration Advisory Board meeting on July 26, 2001. Additionally, the RPMs held conference calls about every two weeks to discuss progress.

An off-site source from the former CalNev Pipeline Company's Daggett Storage Terminal is suspected, but not confirmed, to be the cause of MTBE detected in ground water monitoring wells at OU-1 (Yermo). The Navy proposes an Explanation of Significant Differences to the OU-1 Record of Decision that would allow the solvent plume to disperse through natural attenuation processes rather than implementing an active plume capture and treatment system.

The following major documents submitted by the Navy were reviewed and commented upon by the Regional Board:

- Second Quarter 2001 Ground Water Monitoring Data Summary Report
- Second Quarter 2001 MTBE Data Summary Report
- Annual Report, CAOC 20, 23 & & (Landfills)
- Draft Community Relations Plan Update

Execution Plan Status:

See the DTSC Semiannual Performance Report for the Two-Year Joint CA Execution Plan that has "Status" Annotated.

BRIDGEPORT MCMWTC - PCA NO. 16658

Progress:

The overall restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. Expenditures fluctuate due to sporadic report submittals but should increase in the second half of the FY. The selected remedial action for the Pickel Meadow Landfill was implemented. Site monitoring activities are ongoing. Corrective action planning is in progress for one petroleum-only site.

Execution Plan Status:

See the attachment to this report.

CHINA LAKE NAVAL AIR WEAPONS CENTER - PCA NO. 16659

Progress:

The restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. The Preliminary Base-wide Hydrogeologic Characterization Report was released which, for the first time, delineates the hydrogeology beneath the entire base. It shows that ground water does not flow either off-site or off-base from beneath contaminated Installation Restoration Program sites. Coordination with the City of Ridgecrest, Indian Valley Wells Water District, has allowed collection of data from all of the city drinking water wells, as well as base monitoring wells and drinking water wells. Complete ground water contour maps and ground water flow diagrams are now available to both the city and the base.

Site 12, the Snort Road Landfill, has been regraded and recapped to provide an engineered alternative cap and state-of-the-art drainage pattern for a former “dump-in-a-quarry” which was subject to infiltration and internal drainage for over 40 years.

Execution Plan Status:

See the DTSC Semiannual Performance Report for the Two-Year Joint CA Execution Plan that has “Status” Annotated.

EDWARDS AIR FORCE BASE - PCA NO. 16660

Progress:

The restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. We have investigated and administratively closed 340 sites shown to have non-detectable concentrations of identified constituents of concern. Operable Unit (OU)-1 has active cleanup systems in place at 14 Sites. OU-2 has active cleanup systems in place at 13 Sites. OU- 4 has active cleanup systems in place at 16 Sites. OU-5 has active cleanup systems in place at 13 Sites. OU-6 has 3 active cleanup systems in place. OU-7 has 31 active cleanup systems in place. OU-7 also has 13 Chemical Warfare Material Sites currently undergoing site investigations and/or planning for removal actions. OU-8 has two active cleanup systems in place and 11 active site investigations ongoing. OU-9 has 15 sites undergoing active site investigation. OU-10 has 11 sites undergoing active site investigation. A total of 142 sites are actively being cleaned up or are under investigation at this time.

Challenges:

Funding levels have dropped each year for the last several years, therefore, the Regional Board is examining each strategy for efficiency and cost-effectiveness.

Success Stories:

The RPMs celebrated ten years of working together to define and cleanup environmental problems at EAFB. The team has approved five alternative cleanup methods which are working effectively.

Execution Plan Status:

See the DTSC Semiannual Performance Report for the Two-Year Joint CA Execution Plan that has “Status” Annotated.

GEORGE AIR FORCE BASE - PCA NO. 16661

Progress:

The restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. The Air Force continues investigation and remediation activities. The OU-1 pump-and-treat system operates at an average flow of 280 gallons per minute. In August 2001, Phase 3 field work to fill OU-1 data gaps was completed and data will be incorporated in the Conceptual Site Model, now in preparation. Investigations at the Skeet Ranges were completed. Plans are being

developed to replace the bioventing system at OU-3, Site OT-51, with an internal combustion engine using soil vapor extraction. Soil confirmation samples were collected at Site WP-17 and indicate that bioventing should continue. Soil vapor extraction was discontinued at Site FT-19c so that the High Desert Power Plant pipelines can be installed.

The southeast portion of the OU-1 solvent plume near NZ-55 is neither contained nor fully characterized. A complete containment plan will be prepared after the ground water model is finalized. An Explanation of Significant Differences, approving the technology change at Site OT-51, OU-3, is being prepared. The Dieldrin Investigation Report is delayed pending funding. The OU-2 Feasibility Study is in progress. Plans are also in progress to install additional wells at OU-3 Site, OT-69-MW49, because solvent concentrations have increased in this area. A number of OU-2 free-product recovery wells will be treated with hydrogen peroxide to enhance recovery.

Regional Board staff participated in RPM meetings on July 19 and November 28 and a Restoration Advisory Board meeting on July 19.

The following major documents submitted by the Air Force were reviewed and commented upon by the Regional Board:

- Draft Well Destruction Plans for Wells 27N2, 27D1, 27D2, 26N1, 26N3
- Draft Workplan Hydrogen Peroxide Treatment for Biofouled Wells, OU-2
- Technical Memorandum, Spills and Leaks Related to OU-1

Success Stories:

Monitoring well NZ-55 in OU-1 was converted into an extraction well removing approximately 11 gallons of ground water per minute. Four new extraction wells were installed to enhance the recovery of free-product JP-4 at OU-2.

Execution Plan Status:

See attachments to this report.

AIR FORCE PLANT #42 - PCA NO. 16662

Progress:

The restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. A removal action at IRP Site 27 was completed. Several tons of paint chip-contaminated soils and other debris were removed and disposed off-site at an approved disposal facility. The Air Force submitted the following documents for review and concurrence:

- Draft Well Installation and Ground Water Sampling Report for the Former WTP
- Draft Workplan for Underground Storage Tank Closures at AFP 42
- Final Site Cleanup Update and Proposed Confirmation Sampling for AOC 1
- Draft Remedial Investigation Report for OUs 1, 2, 3, 4, and 5

The most significant of these reports was the Draft Remedial Investigation (RI) Report. The long-awaited RI Report encompasses the environmental investigations that have been completed on all five Operable Units, presents the results of the site-wide risk assessment, and will lead to proposed cleanup alternatives for the sites determined to pose an unacceptable risk. This document is the culmination of many years of work on the site and represents a major milestone in the characterization and cleanup of the facility. The Regional Board, DTSC, Air Force, and members of the public will all have until March 29, 2002, to comment on the draft document.

Success Stories:

The release of the Draft RI Report for review and comment.

Execution Plan Status:

See the DTSC Semiannual Report for the Two-Year Joint CA Execution Plan that has “Status” Annotated.

BARSTOW-DAGGETT AIRPORT – PCA NO. 16961

Progress:

No activities were performed at the site.

Execution Plan Status:

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

**COLORADO RIVER BASIN REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF DEFENSE (DoD) PROGRAM
SEMIANNUAL REPORT
(July 1 - December 31, 2001)**

NAVAL AIR FACILITY, EL CENTRO - PCA NO. 16664

Progress:

The Installation Restoration (IR) Program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are the result of Navy delays. However, work at several IR sites on the base continues to proceed and progress has been made toward the protection of surface and ground waters. A significant amount of work completed has been focused on the removal and treatment of contaminated ground water at IR Site 7, an abandoned fuel farm. Accomplishments are summarized below:

IR Site 7 (Abandoned Fuel Farm), Petroleum Ground Water Plume:

A portable vacuum-enhanced pumping (VEP) system was installed in 2000 and has been operational since November 2, 2000. Other than for routine maintenance the system has been operating nearly continuously. As of December 31, 2001, 55,090 pounds of contaminant have been removed from the soil and ground water. The system is comprised of 132 wells, 20 of which can be operated simultaneously, and a portable extraction unit which can be moved and coupled to any combination of wells. Currently, the unit is extracting from wells over the "hot spot" of the plume, those areas with the highest concentration of contaminants. Once an area is dewatered the unit is moved to the next "hot spot". A Laser-Induced Fluorescent Soil Investigation (LIFSI) was performed in July and August of 2001 to identify those "hot spots" and optimize the use of the VEP unit. Foster-Wheeler, the contractor currently supervising remediation activities at Site 7, is funded through March of 2002. Significant submittals reviewed and commented on include:

- **Progress Monitoring Report-June 2001 through September 2001:** Summarizes the field activities and results of ground water remediation at Site 7.
- **Monthly Monitoring Reports:** In accordance with NPDES Permit CA7000012, monthly monitoring reports detailing COC removal, daily flow, and other pertinent information were submitted for the months of July through December, in a timely manner.
- **Annual Ground Water Monitoring Report for IR Sites 2, 7, and 10:** Summarizes ground water analysis for several IR sites, including Site 7, and contains data for several wells outside the immediate area being remediated.

IR Site 1 (Magazine Road Landfill):

The semiannual and annual monitoring reports were received in a timely fashion. This is a closed landfill that is currently being monitored for 30 years under Waste Discharge

Requirement Order 99-010. COCs have been detected sporadically throughout the site; however evidence of a release is not supported. IR Site 7 is directly upgradient of Site 1 and several COC detections at Site 1 have been attributed to Site 7.

IR Sites 12 and 17 (Open Burn Pit and Fire Fighting Training Area):

A request for closure with No Further Action was submitted and approved by both the Regional Board and DTSC for both of these sites. They have been removed from the IR program.

IR Site 2 (Patrol Road Landfill):

A draft workplan Remedial Investigation was submitted, reviewed, and commented on by Regional Board and DTSC. This site is an inactive landfill. Sporadic detections of COCs have been observed; further characterization of the site is necessary.

UST Sites:

Various remedial activities and ground water monitoring plans are in progress. An Annual Ground Water Monitoring Report for Petroleum Only Sites was received detailing ground water analysis and trends for several former UST sites with known or suspected contamination.

Challenges:

A significant challenge at NAF El Centro exists with regards to Sites 1, 2 and 7. Due to the close proximity of these sites to one another, the contaminant plumes are in some areas co-mingled, making it difficult to evaluate potential releases. Additionally, a leaking underground utility line runs directly through the Site 7 and Site 1 area, which further compromises the integrity of the monitoring wells in the area. Funding for repair of the leaking line is apparently not yet available.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

MARINE CORPS AIR GROUND COMBAT CENTER, TWENTYNINE PALMS – PCA NO. 16665

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. However, in recent months, progress has been made and it appears that the military is now committed to making an effort toward cleanup activities. Significant submittals reviewed and commented on include:

Site Management Plan for Closure of IR Sites:

An SMP was submitted outlining the status of every active IR site on the base and what work needs to be done to achieve closure. With this document, and by working with the

necessary regulatory agencies, the military hopes to expedite the closure of numerous sites where there is little work remaining or no further action is required.

Site 6 (Former Army Sludge Beds):

Extensive soil sampling was done at this site and documented in a Removal Site Evaluation. A risk assessment was also calculated based on the results of the sampling. After reviewing the data, the military asked for a “No Further Action” status for this site; neither the Regional Board nor DTSC concurred with this request. As a result, the military is preparing a Remedial Action Plan which will address the removal of “hot spots”.

Background Metals Study:

An Evaluation of Metals Concentrations in Ground Water Report was submitted. This report was intended to establish threshold concentrations of metals to show representative background levels which could then be compared to ground water monitoring results to determine potential releases. The report was a significant step in advancing the cleanup status at several sites. However, Regional Board staff are not fully convinced that the statistical analysis used to calculate the background levels accurately represents the true ground water conditions at the base, or that the military used all available resources for establishing the background levels. The Regional Board has asked for additional work to be done in this study.

UST Sites:

The military has accomplished some work toward the closing of several UST sites. Sites 1235 and 1400 have been closed, and a “closure template” form has been submitted and approved that will streamline the closing of several more UST sites in the near future.

Challenges:

A significant challenge exists regarding establishment of background concentrations for metals in ground water. The military and Regional Board are not in concurrence on this issue, which could potentially lead to delays in closing sites. However, both parties are working to resolve the concern at this time and it is expected that a consensus will be reached that is agreeable to both sides.

Success Stories:

As previously reported, SouthWest DIV has taken over cleanup efforts at MCAGCC. Staff vacancies have been addressed and a team is in place that can now focus on cleanup efforts at the base.

Execution Plan Status:

See attachments to this report.

**SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF DEFENSE (DoD) PROGRAM
SEMIANNUAL REPORT
(July 1 – December 31, 2001)**

EL TORO MCAS - PCA NO. 16668

Progress:

The Navy is on schedule with the Two-Year Joint CA Execution Plan. Regional Board oversight expenditures are above budgeted levels due to several meetings, conference calls, and a large number of documents submitted for staff review. Four Technical Memoranda, three Workplans, four Summary Reports, two Closure Reports, one Feasibility Study, one Environmental Baseline Survey Report, and two Remedial Design Plans were reviewed by the Regional Board.

Challenges:

The Navy has not made a decision regarding their proposed final cover design for Landfill Sites 2 and 17. Regional Board staff continues to guide the Navy and their contractor in choosing an appropriate design that will protect the ground water.

Success Stories:

The Navy and the Department of Justice signed a Settlement Agreement with the Irvine Ranch Water District and the Orange County Water District regarding use of a desalter to clean up the off-base ground water contaminant plume.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

SEAL BEACH WSF - PCA NO. 16669

Progress:

The Navy is behind schedule with the Two-Year Joint CA Execution Plan. The Navy is moving more slowly on their cleanup projects than Regional Board staff had anticipated. Pilot remediation testing at Site 70 was completed. Pilot remediation testing at Site 40 is continuing.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

TUSTIN MCAF - PCA NO. 16670

Progress:

The Navy is on schedule with the Two-Year Joint CA Execution Plan. The Phase 2 portion of the ground water cleanup system at UST site 222 (MTBE) was installed and brought online. The interim ground water treatment system for OU-1B (1,2,3-trichloropropane plume) was installed and brought online. One of each of the following reports was reviewed: a Record of Decision, a Feasibility Study, a Finding of Suitability to Lease, a Finding of Suitability to Transfer, and an Annual Ground Water Monitoring Report.

Success Stories:

The Record of Decision/Remedial Action Plan for OU-3 Moffet Trenches was signed. The draft document was first issued in 1997.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

NORTON AFB - PCA NO. 16671

Progress:

The Air Force program is in mature stages but behind schedule with the Two-Year Joint CA Execution Plan. See discussion under "Challenges" for causes for over-expenditures and delays in the completion of a final remedial action at Norton AFB. Maintenance and operation of CERCLA remedies are ongoing.

Challenges:

One site remains for CERCLA remedial action. This site is located under the operating golf course and extends off the former base property into the Santa Ana River, an area populated by endangered plant species. The Base-wide Feasibility Study has been proposed in draft form numerous times over the last several years. This document has been disputed and challenged numerous times. Owing to changes in Air Force administration and DoD policy, it appears the Base-wide Feasibility Study and Record of Decision will be further disputed and delayed.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

MARCH AFBCA - PCA NO. 16672

Progress:

The Air Force is behind schedule with the Two-Year Joint CA Execution Plan with regard to the remaining IRP sites. A revised draft Record of Decision for OU-2 BCA Sites was recently received (see Challenges below). New ground water extraction wells at the closed landfill, Site

4, are connected to the enhanced ground water extraction and treatment system (EGETS) and are operational. The SVE soil treatment system continues operation at petroleum corrective action site Building 550. A soil removal action was completed at IRP Site 43, a petroleum corrective action site.

Challenges:

The Air Force needs to complete remedial actions at one UST release site and the remedial action report for closure of the other UST site. As mentioned above, the Regional Board received a new draft Record of Decision for OU2 BCA Site. The ROD was final after a dispute resolution; however, the Air Force retracted the proposed ROD and rewrote several sections. It appears that the rewritten sections will not be acceptable to the regulatory agencies. The delay in finalizing the OU2 ROD will also affect the Base-wide Proposed Plan and ROD.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

JOINT FORCES TRAINING BASE, LOS ALAMITOS (formerly Armed Forces Reserve Center) - PCA NO. 16982

Progress:

The Army National Guard is on schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are the result of efficiencies implemented by the ANG. This program has one interim ground water source area remedial action completed, four interim ground water/soil and ground water source area remedial actions operating, and one interim ground water source area remedial action is under construction (Fuel Farm Office). There are also two operating ground water barrier/pump-and-treat containment systems. The North Landfill EE/CA Workplans were completed and implementation is ongoing. The South Landfill was discovered not to exist; therefore, a "no further action" decision document will be prepared for the site. The Draft Remedial Investigation for OU-3 and Building 158 petroleum corrective action site were completed. The risk assessment necessary to confirm the area of surface risk requiring remedial actions is ongoing.

Challenges:

It is an ongoing challenge for the contractors and Regional Board staff to maintain progress with environmental program activities while dealing with base security measures that were initiated in response to the recent terrorist acts against the U.S. It has also been a significant challenge for the military to maintain four operating interim remedial actions and pump-and-treat systems during the energy crisis. Systems were down for a total of only four to five days, in an area where it was predicted that the power would be off for two months. The energy crisis also resulted in increased costs and contractor overtime expenses.

Execution Plan Status:

See attachments to this report.

CAMP ANZA - PCA NO. 16983

Progress:

The USACE remains behind schedule with the Two-Year Joint CA Execution Plan. The situation at UST Sites B2 and B10 has not changed from the last Semiannual Performance Report (see Challenges below). Regional Board oversight expenditures are above budgeted levels due to the poor quality of the workplan for UST Site B9. Additional time was needed for Regional Board staff to assist the consultant and USACE in developing an adequate workplan to address that site. A workplan for additional investigation at UST Site C9 was submitted, reviewed, and approved.

Challenges:

The USACE is still encountering difficulties gaining access to private property for the investigations at UST Sites B2 and B10.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

MARCH ARB - PCA NO. 16985

Progress:

The Air Force Reserve is on schedule with the Two-Year Joint CA Execution Plan. While all known surface health risk sites have been remedied, the remaining contaminant sites are ground water plume sources that will require treatment systems and long-term operation and maintenance (in addition to continuing the operation and maintenance of the existing treatment systems). There are two systems in operation, two systems in the construction phase, and at least two other sites that are in the pilot study and feasibility study phases. Regional Board staff continued to review submitted Draft Workplans, Technical Memoranda, the Preliminary Draft 5-Year Review, the Draft Site 33 Supplemental Characterization Report, and various monitoring reports.

Challenges:

It is an ongoing challenge for the contractors and Regional Board staff to maintain progress with environmental program activities while dealing with base security measures that were initiated in response to the recent terrorist acts against the U.S. It is also a challenge to overcome constraints from airfield operations at IRP Sites on the parking apron and between runways. At Site 18, all of the above ground structures (such as well heads and a treatment system) had to be modified or removed, in order to meet "safety clear zone" requirements. Access and requirements appear too restrictive to allow completion of cleanup activities at Site 18.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD
DEPARTMENT OF DEFENSE (DoD) PROGRAM
SEMIANNUAL REPORT
(July 1 – December 31, 2001)**

MARINE CORPS BASE, CAMP PENDLETON - PCA NO. 16675

Progress:

The Installation Restoration Program is generally on schedule with the Two-Year Joint CA Execution Plan. The Box Canyon Landfill (IR Site 7) evapotranspiration cap was completed. Preliminary findings of landfill gas monitoring activities, involving ten monitoring locations and 24 gas probes, indicate the concentrations of methane and VOCs detected in all probes were below regulatory levels requiring action. Based on these findings, the base representatives recommend that a landfill gas control system is not warranted at the site.

Fieldwork at OU 4 sites was completed and preliminary findings indicate significant environmental issues of concern including 178,000 mg/kg Pb in soil at IR Site 30. Draft final field sampling and quality assurance project plans for OU 5 were approved, and field activities commenced. Additionally, a Draft Field Sampling Plan/Quality Assurance Plan for IR Site 62, for which preliminary findings indicate the presence of up to 720,000 ug/mg PCBs, was reviewed and comments were provided. Site characterization activities were completed at three RCRA Facility Assessment (RFA) Sites (60, 61, and 62).

Pursuant to Section 7.7 (c) of the Federal Facility Agreement (FFA), Regional Board staff reviewed 100 percent of the IR submittals (total of ten) within the 60-day review period. Comments were provided for the Base Community Relations Plan, which was finalized. The MCBCP has completed approximately 67 percent of the work originally projected for the LUFT sites for the FY in the Joint CA Execution Plan. Regional Board staff completed regulatory review of four CAPs, and an Interim Remedial Action Plan. Due to IRP priorities, Regional Board staff completed approximately 30 percent of all the LUFT submittals provided by the DoN/USMC. Regulatory oversight included the review of approximately 26 percent of the ground water monitoring reports (total of 62 submitted by DoN/USMC). Additionally, Regional Board staff reviewed two Site Characterization Workplans for three RFA Sites (60, 61, and 62). The Regional Board hired a student intern whose duties, in part, include assisting Regional Board staff with the review of outstanding MCBCP documents. Regional Board staff visited eight IR sites, attended two FFA Meetings, and attended a meeting to discuss the base's desire to transfer LUFT sites with CERCLA pollutants dissolved in ground water into the IRP. The Office of Chief Counsel (OCC) representative met with FFA signatory counsel representatives to discuss the appropriate mechanisms to document deviations from the OU 3 ROD for Site 1A.

In the OU 3 ROD, the landfill is identified as the disposal site for contaminated soils excavated from several other IR sites. Due to the closure of Site 7, the FFA signatories are evaluating additional remedial alternatives for the affected sites slated for disposal at Site 7 and appropriate mechanisms and procedures (i.e. Explanation of Significant Difference [ESD] or an amendment to the ROD) for documenting deviations from the OU 3 ROD. Additionally, the water table

immediately to the northeast of the landfill has risen significantly and precluded the collection of a gas sample from the deepest gas probe in the area during a recent sampling event. An additional implication is landfill wastes may be in contact with ground water, a violation of the California Code of Regulations (Title 27, Division 2, Section 20240) which requires a minimum of a five-foot separation between landfill wastes and the highest anticipated elevation of ground water. The base is in the process of identifying potential causes for the rise in the water table.

At IR Site 1A (burn ash site), the presence of chlorinated solvents dissolved in ground water samples collected from monitoring wells within site boundaries and up-gradient of the site continues. Periodically, pollutant concentrations exceed the California Department of Health Services Primary Maximum Contaminant Levels (PMCLs). Based on five ground water sampling events, base representatives recommend the discontinuation of ground water monitoring at the site. Since the source, extent (lateral and vertical), and characterization of these pollutants are problematic, the Regional Board staff does not concur with the recommendation. Additional ground water monitoring activities designed specifically for chlorinated solvents and solvent stabilizers are required to evaluate the threat remaining wastes pose to human health and safety, water quality, and the environment; and to adequately assess and characterize these pollutants.

At IR Site 9, double-digit ppb chlorinated solvents have been detected consistently in ground water samples collected from a monitoring well located cross and down-gradient of the site. Since the commencement of ground water monitoring activities at the site in 1992, the chlorinated solvent concentrations within this well have significantly increased. The primary objective of the ground water monitoring activities was to confirm findings of a computer model that indicated natural attenuation was an effective remedial alternative for the site and would prevent chlorinated solvents from reaching the Pacific Ocean. Recently, base representatives have concluded that chlorinated solvents are originating from an off-site source located to the west of the site. Hence, site characterization activities will be required and will probably result in the designation of another IR Site.

Challenges:

Closure of Site 7 (Box Canyon Landfill), by order of the Commanding General, continues to be a major challenge for FFA signatories and is a significant impediment to the program.

The Regional Board continues to express concerns regarding the accuracy and objectiveness of FFA meeting minutes. If meeting minutes are to serve as the official record of meetings and document regulatory directives, it is of the utmost importance that this issue is resolved. Recently, in an attempt to eliminate this problem, the FFA meeting was recorded, however the problem persists. FFA signatories currently are evaluating available options.

Success Stories:

The Box Canyon Landfill (IR Site 7) evapotranspiration cap was completed.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

CORONADO NAVPHIBASE - PCA NO. 16676

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Currently, the effort is focused on the investigation and ecological risk assessment of shoreline sediments, including offshore portions of IR sites 3 and 2/4. The Regional Board is in the process of reviewing the following documents: "Technical Memorandum, Evaluation of Existing Data for Background", "Draft Technical Memorandum, Stormwater Data Evaluation", and "Preliminary Final Screening-Level Ecological Risk Assessment for the Shoreline Sediments". Under-expenditures at the facility reflect little activity for both the IR sites and Regional Board lead petroleum cases.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

IMPERIAL BEACH OUTLYING LANDING FIELD (OLF) - PCA NO. 16677

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. The Navy has not implemented the proposed ESI workplan due to budget constraints and their low priority ranking for the facility. Under-expenditures reflect little or no activities.

Execution Plan Status:

See attachments to this report.

MARINE CORPS AIR STATION, MIRAMAR - PCA NO. 16678

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to work activities that did not materialize and funding constraints. The Marine Corps submitted a Draft and Final Site Assessment Workplan Addendum for both IR Site 10 (UST 1) and IR Site 18 (Former Atlas Missile Facility) in October 2001. Collection of additional site assessment data at IR Site 18 has delayed collection of quarterly ground water monitoring.

Execution Plan Status:

See attachments to this report.

NAVAL AIR STATION, NORTH ISLAND (NASNI) - PCA NO. 16680

Progress:

The Installation Restoration Program is on track with the Two-Year Joint CA Execution Plan. Regional Board staff provided written or oral comments on two workplans for IR Sites, two Progress Reports, one RI/RFI Report, one EE/CA Document, two Ground Water Monitoring Reports, and three Landfill Maintenance Reports. Significant activities include time-critical removal actions at Site 5 and Site 10, risk-based closure at Site 11, and investigation of DNAPL plume at OU 19, OU 20 and OU 24 areas. Free-product removal action at the Fuel Farm, as well as other Regional Board lead activities for USTs and pipelines, are ongoing.

Success Stories:

The completion of the RI phase and the start of FS phase at Site 9. Continuous, aggressive free-product removal action at the Fuel Farm has controlled the migration of petroleum free-products toward San Diego Bay. The size of the free-product plume continues to shrink in size from previous measurements.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

FLEET ANTI-SUBMARINE WARFARE TRAINING CENTER, PACIFIC, SAN DIEGO (FASWTC PAC) - PCA NO. 16682

Progress:

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to delayed submittals of deliverables for IR Site 5 (Former Fire Fighting School) and IR Site 2 (Former Salvage Yard). No Further Action was reached at Building 2 and 10. The Navy successfully addressed concerns raised by the Port of San Diego (neighbor to Building 10 release) and were able to complete remedial activities, ultimately obtaining a No Further Remedial Action determination.

Execution Plan Status:

See attachments to this report.

MARINE CORPS RECRUIT DEPOT, SAN DIEGO (MCRD) - PCA NO. 16684

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. The Marine Corps has conducted additional site assessment at the Building 172 area, but no activities were conducted at the Building 514 area. The Marine Corps has not submitted a workplan for Building 344 as identified in the workplan.

Execution Plan Status:

See attachments to this report.

PT. LOMA NAVAL COMPLEX SPAWAR-PLC – PCA NO. 16685

Progress:

Minimal activities were completed by the Navy.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

NAVAL COMMUNICATIONS STATION, SAN DIEGO (NCS) - PCA NO. 16686

Progress:

Although no work was identified for FYs 00-01 and 01-02, the Navy submitted a Site Closure Report for the two remaining UST sites. The two remaining UST sites were further investigated and received NFA status.

Success Stories

The Regional Board issued NFA letters for the two remaining UST sites.

Execution Plan Status:

N/A.

NAVAL STATION, SAN DIEGO (NAVSTA) - PCA NO. 16689

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to work activities that have not materialized. The Regional Board expects expenditures to return to appropriate levels. Disagreement regarding the technical approach proposed for Site 4 was resolved and the workplan will be forwarded to the agencies for review. Clean out of the vault at Site 13 was delayed due to the presence of a ship in the graving dock. The Navy determined that excavation of petroleum contamination soil near the quarry wall at Site 8 is necessary.

Challenges:

The effort to determine the impact from Site 1 contaminants to San Diego Bay ecological receptors continues to pose a challenge to the Naval Station Team. There have been several team meetings regarding Site 1 to determine Point of Compliance. Site 1 was delayed because of the complexity of developing a comprehensive ground water study.

The Navy and DTSC are still discussing the need for additional work on the SWMUs identified at Naval Station. The Navy requested DTSC provide an explanation of their requirement that the Navy investigate the SWMUs that were not included in the Navy's permit ten years ago. The Navy has already started the renewal process to make sure it is complete by August 2003 when the permit expires.

Success Stories

The removal action at Site 2g is complete.

Execution Plan Status:

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

FLEET INDUSTRIAL SUPPLY CENTER, SAN DIEGO (FISC) - PCA NO. 16691

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight over-expenditures are due to: 1) work that materialized that was not envisioned at the time of planning; 2) work related to RCRA Environmental Indicators (EI) Goals; and 3) review of documents related to IR Site 19 (submittals scheduled during FY 98/99). There are no tasks scheduled for Year 2 because no further action at Site 3 was anticipated during Year 1.

Challenges:

Consultant reports on IR Site 3 (Oil Disposal Pits) have been of poor quality and not timely. The Navy is addressing this issue. Additionally, it appears that the Navy has not received funding for the identified sites due to the site ranking in the Navy Risk Database. Regional Board staff continues to communicate with base personnel regarding status of site investigation and report submittals.

Execution Plan Status:

See attachments to this report.

NAVAL TRAINING CENTER, SAN DIEGO (NTC) - PCA NO. 16692

Progress:

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan for Site 12 (the Boat Channel). Regional Board staff has coordinated with other Federal, State and local agencies to review the Draft RI Report and to evaluate Navy's response to agencies' comments. Regional Board staff provided the Navy with two comprehensive review letters, and further met with the Navy to discuss various issues. The Feasibility Study for Site 12 is delayed pending finalization of the RI Report. Regional Board staff also reviewed historical documents in response to the city's request for a written confirmation from the Regional Board for transfer of Public Trust Parcels to the State Lands Commission.

Execution Plan Status:

See attachments to this report.

S.E.R.E. CAMP, WARNER SPRINGS - PCA NO. 16697

Progress:

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. Expenditures will return to normal for the remainder of the year. The Navy submitted the second semiannual landfill monitoring and maintenance report within a week of the negotiated submittal schedule. In addition to regular monitoring, the Navy has performed soil cover and drainage system maintenance activities at the site.

Execution Plan Status:

See attachments to this report.

SAN DIEGO BAY PRIMARY SHIP CHANNEL - PCA NO. 16916

Progress:

No work activities were completed by the Navy.

Execution Plan Status:

N/A.

**SEMIANNUAL REPORT – NON-SITE ACTIVITIES
STATE WATER RESOURCES CONTROL BOARD/
REGIONAL WATER QUALITY CONTROL BOARDS
DEPARTMENT OF DEFENSE (DoD) PROGRAM
(July 1 - December 31, 2001)**

The State Water Board (Division of Clean Water Programs, Office of the Chief Counsel, and the Division of Administrative Services) and all nine Regional Water Quality Control Boards (RWQCBs) charge non-site activities to PCAs 16901 and 16905.

STATE WATER RESOURCES CONTROL BOARD:

Division of Clean Water Programs:

Program Management and Administration - PCA NO. 16901

- Initiated development of a secure Internet Website to be used by regulators and the military branches for the preparation of the CA Execution Plans (Appendices E and F) for the FY 2002-03 and FY 2003-04 CA Application. Provided training sessions to all parties and guidance to the RWQCBs on preparation of Resource Estimation Worksheets (REWs).
- Finalized and transmitted the FY 2001-02 DoD Program Workplan Program Change Proposal (PCP) to the Budget Office.
- Responded to requests from the military and DTSC regarding DSMOA CA implementation and the FY 2000-01 and FY 2001-02 CA Application.
- Provided the RWQCBs with DoD Program implementation guidance and relevant information from the DoD/USACE, the USEPA, and/or DTSC.
- Participated in telephone calls and meetings and utilized email to coordinate CA administrative tasks with DTSC and the RWQCBs.
- Coordinated with DTSC management regarding DoD Program management issues.
- Participated in the CA In-Progress Review meetings with DTSC and the military on October 10; participated in two IPR teleconference calls on November 8 and December 13, 2001.
- Planned, facilitated, and participated in three DoD Program Roundtables with State and Regional Water Board participants, as follows: One Roundtable held at Region 3 on September 27-28, which included a site visit to Vandenberg AFB; and two teleconferences on July 19 and November 15, 2001. Prepared and distributed minutes of each Roundtable.
- Continued development and maintenance of the DoD Database Program. Compiled, reconciled, and transmitted Daily Log Reports to DTSC, as required by the IA. Compiled,

reconciled, and transmitted the Significant Milestone Reports and the Semiannual Performance Report to DTSC, as required by the IA. Developed and transmitted monthly site and non site-specific Expenditure Reports to affected organizations and the military.

- Attended the EPA-sponsored FUDS Workgroup Meeting in Riverside on July 31, 2001.
- Assisted RWQCBs with work efforts necessary to upload DoD UST data into GeoTracker. Provided assistance to the RWQCBs regarding AB2886, which requires electronic reporting of UST laboratory data into GeoTracker.
- Developed the DoD Program Internet site: <http://www.swrcb.ca.gov/cwphome/land/dod/intErnet/>, including a Program Overview, Semiannual Performance Reports, Success Stories, Program Managers/Contacts List, Facilities List, and related links.
- Maintained the DoD Program Intranet site, including the Bimonthly Roundtable Minutes, training announcements, the technical library, and guidance.
- Reviewed monthly invoice and labor distribution reports; resolved errors and omissions, when necessary.
- Prepared and participated in Executive Program Management Briefings.
- Attended training: Defensive Driver; Field Safety; Ergonomics; HTML, Fundamentals and Advanced; Dream Weaver; Budgeting Workshop; and Listening Skills.
- Supervised staff, developed duty statements, prepared performance evaluations, and participated in employee interviews.
- Prepared timesheets and input daily log and narrative information into the DoD Database Program.

Office of the Chief Counsel:

Program Management and Administration - PCA NO. 16901

- Provided legal assistance to SWRCB and RWQCB staff.
- Assisted RWQCBs in ARARs identification.
- Prepared timesheets and input daily log and narrative information into the DoD Database Program.

Division of Administrative Services:

Program Management and Administration - PCA NO. 16901

- Prepared and sent monthly DoD Program invoices to DTSC, monitored the Reimbursement Worksheet for cash availability, and calculated and posted monthly statistics.
- Prepared timesheets and input daily log and narrative information into the DoD Database Program.

REGIONAL WATER QUALITY CONTROL BOARDS:

Program Management and Administration - PCA NO. 16901

- Using the secure Internet Website, participated with DTSC and the military branches in the development of the FY 2002-03 and FY 2003-04 Execution Plans (Appendices E and F) for the CA Application. Preparation of Resource Estimation Worksheets (REWs).
- Developed and provided the SWRCB with input for the January through June, 2001 Semiannual Performance Report to DTSC.
- Assisted SWRCB with work efforts necessary to upload DoD UST data into GeoTracker.
- Responded to requests from the military and DTSC regarding the DSMOA CA implementation.
- Coordinated with DTSC management regarding DoD Program management issues.
- Attended Senior, unit, and technical staff meetings and prepared progress report updates to RWQCB management.
- Participated in three DoD Program Roundtables as follows: One Roundtable held at Region 3 on September 27-28, including a site visit to Vandenberg AFB; and two teleconferences held on July 19 and November 15, 2001.
- Attended the EPA-sponsored FUDS Workgroup Meeting in Riverside on July 31, 2001.
- Attended training: CA Execution Plans on the Web; Sexual Harassment in the Work Place; Ground Water Modeling and Hydrology; Natural Attenuation of Chlorinated Solvents; Statistics; Sediment Management; Mandated Electronic Reporting of UST Data (AB 2886); Health and Safety; New Employee Orientation; Princeton Ground Water; Enhanced Bioremediation Seminar; Technical Report Writing and Editing; Risk-based Screening Levels Workshop; GeoTracker Basics; Internet Session on In-Situ Bioremediation of Solvents in Ground Water; Spatial Analysis and Decision Assistant (USEPA); Erosion Control; Land Use Covenants; Access; Defensive Driver; HAZWOPER; Contaminated Sediment Remediation, and Quality Assurance.

- Prepared timesheets and input daily log, milestone, and narrative information into the DoD Database Program.
- Supervised staff, developed duty statements, prepared performance evaluations, and participated in employee interviews.

STATE WATER BOARD AND REGIONAL WATER QUALITY CONTROL BOARDS:

Clerical Support - PCA NO. 16905

- Provided clerical support for the DoD Program professional staff.

Attachments

TWO-YEAR JOINT CA EXECUTION PLANS

12-31-01 Status

TWO-YEAR JOINT CA EXECUTION PLAN

Service: Army Corps of Engineers

Name of Installation: Santa Rosa Naval Auxiliary Air Station

Funding Source _____

Project or Operable Unit: _____

State: CA

Water Board Lead, PCA #169-12

| | |
|--------|----------|
| DERP | <u>X</u> |
| BRAC 1 | _____ |
| BRAC 2 | _____ |
| BRAC 3 | _____ |
| BRAC 4 | _____ |

CA Period 1 Jul 00 - JUN 02

| YEAR 1 | July 1, 2000 to June 30, 2001 | |
|--|---|---|
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Technical Memo summing up RI | Prepare Technical Memo STATUS = [1] | Review Technical Memo |
| Removal of High Priority Surface Contamination | Prepare workplan STATUS = [1] | Review workplan |
| Develop workplan for additional RI | Prepare workplan STATUS = [1] | Review workplan for additional RI |
| UST investigation workplan | Prepare workplan STATUS = [1] | Review and comment on Draft and Final UST investigation workplans |
| Project Management | RPM Project Coordination/ Management STATUS = [1] | Attend RPM Meetings |
| | 4 Site Visits STATUS = [1] | Site visits |
| | RPM Training STATUS = [1] | RPM Training |
| UST | | Review and comment on Draft and Final UST Closure Report |
| Public Participation | Conduct Public Meetings STATUS = [1] | Assist ACOE with Public Participation Process |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| YEAR 2 | July 1, 2001 to June 30, 2002 | |
|----------------------------------|--|--|
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Feasibility Study | Prepare Study SOW Status = [1] | Review and comment on draft and final documents |
| UST Corrective Action Plan (CAP) | Prepare UST CAP Status = [1] | Review and comment on draft and final CAP |
| Quarterly | 4 Quarterly Groundwater Monitoring Reports Status = [1] | Review and comments on documents |
| Project Management | 4 Site Visits Status = [1] RPM Training Status = [1] RPM Project Coordination/ Management Status = [1] | 4 site visits Attend applicable training Attend RPM meetings |
| Public Participation | Conduct Public Meetings Status = [1] | Ensure adequate public participation |

State RWQCB Project Manager: Stephen Bargsten
 E-mail/Phone No.: bargs@rb1.swrcb.ca.gov Date: 1/5/01

DoD Project Manager: Raj Sandhu
 E-mail/Phone No.: Rsandhu@spk.usace.army.mil Date: 1/5/01

Note: For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review.

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN**Water Board Lead, PCA # 166-10**

Name of Installation, Project, or Operable Unit:

Moffett Federal Airfield

Service:

Department of the Navy

Funding Source:

DERA _____

BRAC _____

BRAC II XX _____

BRAC III _____

BRAC IV _____

List all major milestones occurring at the installation for years 1 and 2.

YEAR 1 (FY 00/01)

| | |
|---|----------|
| Stationwide Conceptual Design (4) | 7/2/00 |
| Northern Channel Draft Alternatives Analysis TM (3) | 8/7/02 |
| Site 22 Draft Final ROD(4) | 5/22/01 |
| Northern Channel Draft ROD(3) | 3/05/04 |
| Northern Channel Draft Final Proposed Plan(3) | 8/14/03 |
| Draft ISRM Interim Field Test Report (2) | 8/7/00 |
| Site 22 Final ROD (1) | 9/7/00 |
| Site 22 RD/RA Definitive Design (3) | 9/11/00 |
| Northern Channel Draft Eco Monitoring Plan (3) | 5/29/03 |
| Northern Channel Final Alternatives Analysis TM (3) | 9/02/03 |
| Northern Channel Final Proposed Plan (3) | 9/05/03 |
| Final February 2000 Quarterly Report (2) | 6/29/01 |
| Draft May 2000 Quarterly Report (2) | 6/29/01 |
| EATS NPDES Self-monitoring Report (2) | 9/29/00 |
| WATS NPDES Self-monitoring Report (2) | 9/29/00 |
| Site 22 Draft Design Fact Sheet (4) | 06/20/01 |
| Final ISRM Interim Field Test Report (1) | 10/21/00 |
| Northern Channel Draft Final ROD (3) | 03/05/04 |
| Stationwide RD/RA Preliminary Design (3) | 12/17/01 |
| Site 22 Draft O&M Plan (3) | 05/10/02 |
| Northern Channel Final Eco Monitoring Plan (3) | 11/15/03 |
| Stationwide Draft RD/RA Design Fact Sheet (3) | 03/05/04 |
| Site 22 Final RD/RA Design Fact Sheet (3) | 8/26/01 |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; [4] Will Not Be Performed.

| | |
|---|---------|
| Northern Channel Final ROD (3) | 5/11/04 |
| Final May 2000 Quarterly Report (2) | 6/29/01 |
| Draft August 2000 Quarterly Report (2) | 6/29/01 |
| EATS NPDES Self-monitoring Report (1) | 7/30/01 |
| WATS NPDES Self-monitoring Report (1) | 7/30/01 |
| Site 22 Final O&M Plan (3) | 8/24/03 |
| Stationwide Final RD/RA Design Fact Sheet (3) | 4/29/02 |
| Site 22 Draft Remedial Action Completion Report (3) | 5/16/04 |
| Stationwide RD/RA Definitive Design (3) | 7/28/02 |
| Northern Channel RD/RA Conceptual Design (3) | 3/25/04 |
| Stationwide Draft O&M Plan (3) | 3/31/04 |
| Final August 2000 Quarterly Report (2) | 6/29/01 |
| Draft November 2000 Quarterly Report (2) | 6/29/01 |
| EATS NPDES Self-monitoring Report (1) | 7/30/01 |
| WATS NPDES Self-monitoring Report (1) | 7/30/01 |
| Site 22 Final Remedial Action Completion Report (3) | 5/17/03 |
| Final November 2000 Quarterly Report (2) | 6/29/01 |
| Draft February 2001 Quarterly Report (2) | 6/29/01 |
| EATS NPDES Self-monitoring Report (1) | 6/29/01 |
| WATS NPDES Self-monitoring Report (1) | 6/29/01 |
| Remaining USTs Closure (1) | |
| Public Meeting (Northern Channel) (1) | |
| RPM Meetings - 12 Meetings (1 meeting per month) (2) | |
| RAB Meetings - 4 Meetings (1 meeting per quarter) (2) | |
| Field Inspections - 6 times a year (2) | |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; [4] Will Not Be Performed.

YEAR 2 (FY 01/02)

| | |
|--|----------|
| Northern Channel Preliminary RD/RA Design (3) | 7/24/01 |
| Northern Channel Corridor Draft RD/RA Technical Memo (3) | 8/3/01 |
| Stationwide Final O&M Plan (3) | 8/15/01 |
| Northern Channel Draft RD/RA Design Fact Sheet (3) | 8/24/01 |
| Final February 2001 Quarterly Report (2) | 9/28/01 |
| Draft May 2001 Quarterly Report (2) | 9/28/01 |
| EATS NPDES Self-monitoring Report (1) | 9/28/01 |
| WATS NPDES Self-monitoring Report (1) | 9/28/01 |
| Northern Channel Corridor Draft Final TM (3) | 10/17/01 |
| Northern Channel Final RD/RA Design Fact Sheet (3) | 10/24/01 |
| Stationwide Draft Remedial Action Completion Report (3) | 10/28/01 |
| Northern Channel RD/RA Definitive Design (3) | 11/21/01 |
| Northern Channel Corridor Final RD/RA Technical Memo (3) | 12/16/01 |
| Northern Channel Draft O&M Plan (3) | 12/22/01 |
| Final May 2001 Quarterly Report (2) | 12/31/01 |
| Draft August 2001 Quarterly Report (2) | 12/31/01 |
| EATS NPDES Self-monitoring Report (1) | 12/31/01 |
| WATS NPDES Self-monitoring Report (1) | 12/31/01 |
| Stationwide Final Remedial Action Completion Report (3) | 1/27/02 |
| Final August 2001 Quarterly Report (2) | 3/31/02 |
| Draft November 2001 Quarterly Report (1) | 3/31/02 |
| EATS NPDES Self-monitoring Report (1) | 3/31/02 |
| WATS NPDES Self-monitoring Report (1) | 3/31/02 |
| Northern Channel Final O&M Plan (3) | 5/8/02 |
| Final November 2001 Quarterly Report (1) | 6/30/02 |
| Draft February 2002 Quarterly Report (1) | 6/30/02 |
| EATS NPDES Self-monitoring Report (1) | 6/30/02 |
| WATS NPDES Self-monitoring Report (1) | 6/30/02 |
| RPM Meetings - 12 Meetings (1 meeting per month) (1) | |
| RAB Meetings - 4 Meetings (1 meeting per quarter) (1) | |
| Field Inspections - 6 times a year (1) | |

Concurrence Signatures

| | |
|----------------------------|----------|
| /S/ Adriana Constantinescu | 10/30/01 |
|----------------------------|----------|

| | |
|-----------------------|------|
| State Project Manager | Date |
|-----------------------|------|

| | |
|----------------------|----------|
| /S/ Andrea Muckerman | 10/25/01 |
|----------------------|----------|

| | |
|---------------------|------|
| DOD Project Manager | Date |
|---------------------|------|

Date of Update _____

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN*

Service: US Navy
 Name of Installation: NFD Point Molate Funding Source _____
 Project, or Operable Unit _____
 State CA _____
Water Board Lead, PCA # 166-12 DERP _____
 BRAC 1 _____
 BRAC 2 _____
 BRAC 3 _____
 CA Period 1 JUL 00 – 30 JUN 02 BRAC 4 **X**

| |
|--|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
| WORK DESCRIPTION: |
| Review of key documents and oversight of remediation projects. |
| DELIVERABLES: |
| Final Phase II EBS (1), Corrective Action Plans for USTs & Pipelines (1), UST/Pipeline Closure Reports (1), USTs Closure Plans and Specs(1), Final EE/CA (2), Basewide GW Monitoring Program (1), Site 3 Draft EE/CA (1) |
| MEETINGS: RAB meetings, BCT meetings, RPM Scoping Meetings, Status is (1) for all meetings |
| ADDITIONAL STATE ACTIVITIES: |
| |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Performed.

| |
|---|
| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
| WORK DESCRIPTION: |
| Review of key documents and oversight of remediation projects. |
| |
| DELIVERABLES: |
| Plans & Specifications (1), Proposed Plans (1) & ROD (1), Project Closure-out Reports (1) |
| Corrective Action Plans (1) |
| MEETINGS: RAB meetings, BCT &RPM meetings, Public Meetings (1) |
| |
| ADDITIONAL STATE ACTIVITIES: Information to be supplied by the state. |
| |
| |

State Project Manager: **Adriana Constantinescu**

E-mail/Phone No. avc@rb2.swrcb.ca.gov (510)622-2353

Date: 12/31/01

DoD Project Manager: Marianna Potacka

E-mail/Phone No. potackamk@efds.w.navy.mil (619)532-0941

Date: 12/31/01

* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review.

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Performed.

(Recreated from 01/14/00 FAX copy)

TWO-YEAR JOINT CA EXECUTION PLAN*

Service DEFENSE ENERGY SUPPORT CENTER
 Name of Installation DFSP Ozol
 Project, or Operable Unit _____
 State California
Water Board Lead, PCA # 166-21

Funding Source
 DERP _____
 BRAC 1 _____
 BRAC 2 _____
 BRAC 3 _____
 DWCF X

CA Period 1 JUL 00 – 30 JUN 02

| |
|---|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
| WORK DESCRIPTION: Review biannual site Monitoring and Sampling Report [1], review quarterly Remediation System Status Reports [1], review, comment, approve site Risk Assessment [4]. Review and evaluate remediation system effectiveness and if appropriate, implementation of remediation system upgrades as needed [3]. |
| DELIVERABLES: Biannual Monitoring and Sampling Reports [1], Quarterly System Status Reports [1], Risk Assessment [4]. |
| MEETINGS: (optional) |
| ADDITIONAL STATE ACTIVITIES: |
| |
| |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| |
|--|
| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
| WORK DESCRIPTION: Review biannual site Monitoring and Sampling Report, review quarterly Remediation System Status Reports. Review of the remediation system upgrades (including work plans, etc) determined in Year 1, as appropriate. |
| DELIVERABLES: Biannual Monitoring and Sampling Reports [1], Quarterly System Status Reports [1], Remediation System Work plans [3]. |
| MEETINGS: (optional) |
| ADDITIONAL STATE ACTIVITIES: Information to be supplied by the state. |

State Project Manager /s/ James Ponton

E-mail/Phone No. jdp@rb2.swrcb.ca.gov (510) 622-2492 Date: 1/11/00

DoD Project Manager /s/ Jack O'Donovan

E-mail/Phone No. jodonovan@desc.dla.mil (703) 767-8309 Date: 1/11/00

- For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service: U.S Army
 Name of Installation Presidio of Monterey Funding Source
 Project, or Operable Unit DERA Projects
 State California
Water Board Lead, PCA # 166-23

DERP X
 BRAC 1 _____
 BRAC 2 _____
 BRAC 3 _____
 BRAC 4 _____

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 1 | | July 1, 2000 to June 30, 2001 | |
|----------------------------------|--|---|--|
| <u>Milestones</u> | <u>Task(s)</u> | <u>State DSMOA Services</u> | |
| RI/FS – Lower motorpool (POM-02) | Final Remedial Investigation Report and Feasibility Study Status – [2] | <ul style="list-style-type: none"> • Conduct technical reviews • Attend comment resolution meetings • Coordinate with Monterey County Department of Environmental Health | |
| LTM – Landfill (POM-05) | Long Term Maintenance Status – [1] | <ul style="list-style-type: none"> • Quarterly Inspections • Review quarterly LTM reports | |

| YEAR 2 | | July 1, 2001 to June 30, 2002 | |
|----------------------------------|--|---|--|
| <u>Milestones</u> | <u>Task(s)</u> | <u>State DSMOA Services</u> | |
| On-going LTM - Landfill (POM-05) | Long Term Maintenance Status – [1] | <ul style="list-style-type: none"> • Quarterly inspections • Review quarterly LTM reports | |

State Project Manager Grant Himebaugh /s/
 E-mail/Phone No. ghimebau@rb3.swrcb.ca.gov / (805) 542-4636 Date: 1/3/00
 DoD Project Manager Melissa Hlebasko /s/
 E-mail/Phone No. hlebaskm@pom-emh1.army.mil / (831) 393-1284 Date: 1/3/00

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

Appendix E

TWO-YEAR JOINT CA EXECUTION PLAN

Service __Department of the Army_____

Name of Installation Branch U.S. Disciplinary Barracks, **Lompoc**
Projects _RIFS-Wood Dump, RIFS- Former Army Landfill, RIFS-
 Washrack/Greaserack, SI- Farm Fuel Area, PP/ROD- other sites
State __California_____ **Water Board Lead, PCA #169-30**

Funding Source
 DERP _____
 BRAC 1 _____
 BRAC 2 _____
 BRAC 3 _____
 BRAC 4 X _____

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 1 | July 1, 2000 to June 30, 2001 | |
|-------------------------------------|--|---|
| Milestones | Tasks | State DSMOA Services |
| RD-Wood Dump | RD of culvert and cover, Status – [3]* ; GW monitoring Status – [1] | <ul style="list-style-type: none"> Conduct technical reviews Identify ARARs Review GW monitoring results |
| RI/FS-Wash Rack | RI/FS, Further characterization Status – [3]* ; GW monitoring Status – [1] | <ul style="list-style-type: none"> Conduct technical reviews Review GW monitoring results |
| RD Farm Fuel Area | RD for 1,2 DCA plume GW monitoring Status – [3]* | Conduct technical review of plans Identify ARARs Review GW monitoring results |
| SI Scarring Area | SI geophysical survey and soil gas samples Status – [3]* | Conduct technical review of plans |
| INV UST site at Powerhouse | Take conformation samples Status – [3]* | Conduct technical review of plans |
| INV UST site at Transportation Bldg | Take conformation samples Status – [3]* | Conduct technical review of plans |
| Special Items | BRAC tasks, letter reports, RWQCB Board items, conference calls Status – [1] | <ul style="list-style-type: none"> Attend BCT meetings, participate in conference calls Conduct technical reviews, respond to public inquiries Prepare Regional Water Quality Control Board status reports |

* These activities were delayed pending execution of a fixed-price contract for all additional investigative and remedial efforts.

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| YEAR 2 | July 1, 2001 to June 30, 2002 | |
|-------------------------------------|--|--|
| Milestones | Tasks | State DSMOA Services |
| RD, RA Farm Fuel Area | RD, RA for 1,2 DCA plume Status – [3]* GW monitoring | <ul style="list-style-type: none"> • Conduct technical review of plans • Conduct technical review of reports • Review GW monitoring results |
| RD, RA Wash Rack | RD, RA of PCE plume Status – [3]* GW monitoring Status – [1] | <ul style="list-style-type: none"> • Conduct technical review of plans • Conduct technical review of reports • Identify ARARs • Review GW monitoring results |
| RD, RA Wood Dump Site | RD, RA of culvert and site cover Status – [3]* GW monitoring Status – [1] | <ul style="list-style-type: none"> • Conduct technical review of plans • Review GW monitoring results |
| SI Scarring Area | Review results of SI Status – [3]* | <ul style="list-style-type: none"> • Conduct technical review of reports • Sign NFA Memo |
| INV UST site at Powerhouse | Review results of INV Status – [3]* | <ul style="list-style-type: none"> • Conduct technical review of reports • Issue closure letter |
| INV UST site at Transportation Bldg | Review results of INV Status – [3]* | <ul style="list-style-type: none"> • Conduct technical review of reports • Issue closure letter |
| Special Items | BRAC meetings and tasks RWQCB items Conference calls Status – [1] | <ul style="list-style-type: none"> • Attend BCT meetings • Participate in conference calls • Conduct technical reviews • Respond to public inquiries • Prepare RWQCB status reports |

* These activities were delayed because of prior year's delay in completion of planned activities and because of execution of a fixed-price contract for all additional investigative and remedial efforts took longer than anticipated.

State Project Manager : Linda Stone
E-mail/Phone No. lstone@rb3.swrcb.ca.gov (805) 542-4695
Date: 3/15/01
Signature

_____/s/_____

DoD Project Manager: Eric Waehling, BRAC Environmental Coordinator.
E-mail/Phone No. waehline@lewis.army.mil / / 253-966-1732
Date: 3/27/01
Signature

_____/s/_____

Alternate POC: Frank Crown, Project and Technical Manager
E-mail/Phone No. crownf@lewis.army.mil/253-967-2326
Date: 3/27/01
Signature

_____/s/_____

* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review.

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service: Army National Guard
 Name of Installation: Camp Roberts
 Funding Source: DERA
 Project, or Operable Unit: N/A
 State: California
Water Board Lead, PCA #169-31

DERP X
 BRAC 1 _____
 BRAC 2 _____
 BRAC 3 _____
 BRAC 4 _____

CA Period 1 JUL 00 – 30 JUN 02

| |
|---|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
| WORK DESCRIPTION: Complete SI; Decision Documents for sites proposed for no further action. |
| |
| |
| DELIVERABLES: Draft SI Reports: Status – [1] |
| Annual Installation Action Plan: Status – [4] |
| Decision Document: Status – [4] |
| MEETINGS: Monthly RPM meetings: Status [1] ; Annual In Progress Review Meeting: Status [1] |
| |
| |
| ADDITIONAL STATE ACTIVITIES: Technical site visits; Technical and Regulatory Review, Annual In Progress Review, Annual Partnering meeting |
| |
| |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| |
|---|
| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
| WORK DESCRIPTION: Review Possible RI actions and Develop a work plan Status – [1] |
| |
| |
| DELIVERABLES: Annual Installation Action Plan Status – [1] |
| Draft RI Work Plan Status – [3] |
| |
| MEETINGS: Monthly RPM meetings [1] |
| |
| |
| ADDITIONAL STATE ACTIVITIES: Technical site visits; Technical and Regulatory Review, Annual In Progress Review, Annual Partnering meeting |
| |
| |

State Project Manager: Linda Stone
E-mail/Phone No. lstone@rb3.swrcb.ca.gov (805) 542-4695 Date: 12/14/99

DoD Project Manager: Guy K. Romine
E-mail/Phone No. LAAFRC@aol.com (562) 795-2821 Date: 12/8/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service USACE, Sacramento District

Name of Installation NAS Monterey

Project, or Operable Unit _____

State California

Funding Source

FUDS X

Water Board Lead, PCA # 169-39

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 1 | July 1, 2000 to June 30, 2001 | |
|---|--|--|
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| <p>Tanks 9 and 89 Areas</p> | <p>Interim Operations Draft Final Report</p> <p>Quarterly groundwater monitoring pending selection of final remedy Status – [1]</p> | <ul style="list-style-type: none"> • Conduct technical reviews • Attend comment resolution meetings |
| <p>Building 17 Area</p> | <p>Interim Operations Draft Final Report</p> <p>Quarterly groundwater monitoring pending selection of final remedy Status – [1]</p> | <ul style="list-style-type: none"> • Conduct technical reviews • Attend comment resolution meetings |
| <p>Fire Fighting Training Facility</p> | <p>RI/FS Scoping</p> <p>Site Characterization, Status – [2]</p> | <ul style="list-style-type: none"> • Conduct technical reviews • Attend comment resolution meetings |
| | <p>Develop Work/Sampling & Analysis Plan, Status – [2]</p> | <ul style="list-style-type: none"> • Coordinate with other state agencies, ecology programs, and EPA |
| | <p>Develop Worker Health & Safety Plan, Status – [2]</p> | |
| | <p>Final Remedial Investigation Report and Feasibility Study, Status – [1]</p> | |
| <p>Remedy Selection</p> | <p>Proposed Plan (2-3 Drafts), Status – [1]</p> | <ul style="list-style-type: none"> • Screen alternatives • Review and approve plan • Identify ARARS |
| | | <ul style="list-style-type: none"> • Coordinate with other state agencies, ecology programs, and EPA |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| | | |
|-------------------|---|--|
| YEAR 2 | July 1, 2001 to June 30, 2002 | |
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Remedy Selection | Record of Decision Status – [3] | <ul style="list-style-type: none"> • Conduct technical reviews • Attend comment resolution meetings • Coordinate with other state agencies, ecology programs, and EPA |
| Remedy Design | Scope Design Remedial Design (2-3 Drafts) Status – [3] | <ul style="list-style-type: none"> • Negotiate schedule for RD/RA • Conduct technical reviews • Attend comment resolution meetings • Coordinate with other state agencies, ecology programs, and EPA |

State Project Manager: Grant Himebaugh
 E-mail/Phone No.: ghimebau@rb3.swrcb.ca.gov
 DoD Project Manager: Jerry Vincent
 E-mail/Phone No. gvincent@spk.usace.army.mil_____

DoD former Prj. Mgr. Kevin Kratzke /s/
 Date: 13 January, 2000
 DoD Prj. Manager: Jerry Vincent /s/
 Date: 5 January 2000

* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service DEFENSE ENERGY SUPPORT CENTER

Name of Installation DFSP San Pedro

Funding Source

Project Tank Farm, Administration and Pump House Areas

State California

DERP

Water Board Lead, PCA # 166-37

BRAC

BRAC II

BRAC III

DWCF

X

CA Period 1 JUL 00 – 30 JUN 02

| |
|---|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
| <p>WORK DESCRIPTION:</p> <ul style="list-style-type: none"> • Long Term Monitoring (LTM) of groundwater underlying the Tank Farm, Administration and Pump House area. [1] • Long Term Monitoring (LTM) of the remediation system. [1] • Review and comment ongoing remediation system installation. [2] • Community Involvement [1] |
| <p>DELIVERABLES:</p> <ul style="list-style-type: none"> • Semi-annual Groundwater Monitoring Reports [2] • Quarterly Remediation System Status Reports [2] • Remediation system installation reports [2] |
| <p>MEETINGS:</p> <ul style="list-style-type: none"> • RAB Meetings (yearly) [2] • RPM Meetings (as needed) [2] |
| <p>ADDITIONAL STATE ACTIVITIES:</p> <ul style="list-style-type: none"> • Site Visits [2] • Provide technical review of the documents submitted [2] • Attend RAB Meeting [2] |
| |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| |
|--|
| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
| <p>WORK DESCRIPTION:</p> <ul style="list-style-type: none"> • Long Term Monitoring (LTM) of groundwater underlying the Tank Farm, Administration and Pump House area. [1] • Long Term Monitoring (LTM) of the remediation system. [1] • Conduct remediation activities at the administration area. [1] • Community Involvement [1] |
| <p>DELIVERABLES:</p> <ul style="list-style-type: none"> • Quarterly Groundwater Monitoring Reports [1] • Semi-annual Remediation System Status Reports [1] • Remedial Investigation Work Plan (Draft and Final) [2] • Remedial Investigation Report (Draft and Final) [2] |
| <p>MEETINGS:</p> <ul style="list-style-type: none"> • RAB Meetings (yearly) [1] • RPM Meetings (as needed) [1] |
| <p>ADDITIONAL STATE ACTIVITIES:</p> <ul style="list-style-type: none"> • Site Visits [1] • Provide technical review of the documents submitted [1] • Attend RAB Meetings [1] |

State Project Manager G Jeffery Hu
 E-mail/Phone No. ghu@rb4.swrcb.ca.gov / (213) 576-6736 Date: 12/31/00

DoD Project Manager Hasan Dogrul
 E-mail/Phone No. hdogrul@desc.dla.mil / (703) 767-8308 Date: 11/10/99

Annual Review Update _____ (Pen and ink changes, date/initial or rewrite)

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service DEFENSE ENERGY SUPPORT CENTER
 Name of Installation DFSP Norwalk
 Project Tank Farm
 State California
Water Board Lead, PCA # 166-38

Funding Source
 DERP _____
 BRAC _____
 BRAC II _____
 BRAC III _____
 DWCF

CA Period 1 JUL 00 – 30 JUN 02

| |
|---|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
| WORK DESCRIPTION: <ul style="list-style-type: none"> • Long Term Monitoring (LTM) of groundwater underlying the Tank Farm [2] • Conduct Groundwater Modeling & Risk Assessment [4] • LTM of remediation system [2] • Review and comment on ongoing remediation system installation [2] • Community Involvement [2] |
| DELIVERABLES: <ul style="list-style-type: none"> • Quarterly Groundwater Monitoring Reports [2] • Quarterly Remediation System Status Reports [2] • Groundwater Modeling & Risk Assessment Report (Draft and Final) [4] |
| MEETINGS: <ul style="list-style-type: none"> • RAB Meetings [2] • RPM Meetings (as needed) [2] |
| ADDITIONAL STATE ACTIVITIES: <ul style="list-style-type: none"> • Site Visits [2] • Provide technical review of the documents submitted [2] • Attend RAB Meetings [2] |
| |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| |
|---|
| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
| WORK DESCRIPTION: (1) Long Term Monitoring (LTM) of groundwater underlying the Tank Farm [1] (2) LTM of remediation system [1] (3) Community Involvement [1] (4) Conduct site assessment activities at the sludge pit area [2], truck rack area [2], areas underlying aboveground storage tanks and other potential areas of concern [1]. |
| DELIVERABLES: Semi-annual Groundwater Monitoring Reports [1] Semi-annual Remediation System Reports [1] Site Investigation Work Plan (Draft and Final) [2] Site Investigation Report (Draft and Final) [1] |
| MEETINGS: RAB Meetings [1] RPM Meetings (as needed) [1] |
| ADDITIONAL STATE ACTIVITIES: Site Visits [1] Provide technical review of the documents submitted [1] Attend RAB Meetings [1] |

State Project Manager Ana Townsend
 E-mail/Phone No. [aveloz@rb4.swrcb.ca.gov/](mailto:aveloz@rb4.swrcb.ca.gov) (213) 576-6738 Date: 12/31/00

DoD Project Manager Hasan Dogrul
 E-mail/Phone No. hdogrul@desc.dla.mil/ (703)767-8308 Date: 11/10/99

Annual Review Update _____ (Pen and ink changes, date/initial or rewrite)

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

Two-Year Joint CA Execution Plan

| | | |
|--------------------------------------|-----------|--------------------|
| Service _____ | DERP-FUDS | |
| Name of Installation _____ | NIKE 29 | Funding Source |
| Project, or Operable Unit _____ | J09CA0420 | |
| State _____ | CA | DERP _____ X _____ |
| Water Board Lead, PCA #169-42 | | BRAC 1 _____ |
| | | BRAC 2 _____ |
| | | BRAC 3 _____ |
| | | BRAC 4 _____ |

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 1 | July 1, 2000 to June 30, 2001 | |
|--|---|---|
| <u>Milestones</u> BD/DR Project (Remedial Design/ Remedial Action) | <u>Tasks</u> Work Plan [2] Scope Design [2] Remedial Design [2] Site Safety/Health Plans [2] Remedial Action Plan/Reports [2] Community Relations [2] | <u>State DSMOA Services</u> <ul style="list-style-type: none"> Conduct technical reviews Attend comment resolution meetings Identify ARARS Screen alternatives Attend RAB Meetings as scheduled |

| YEAR 2 | July 1, 2001 to June 30, 2002 | |
|--|---|--|
| <u>Milestones</u> BD/DR Project HTRW Project (Remedial Design/Remedial Action) (Remedial Actions Operations) | <u>Tasks</u> None, Project Complete [2] Site Health/Safety Plans [1] Design and Construction Reports [2] Workplan [2] RA Operational Plans/ Reports [2] Community Relations [1] | <u>State DSMOA Services</u> <ul style="list-style-type: none"> Conduct technical reviews Attend comment resolution meetings Conduct technical review Negotiate schedule for RD/RA Attend comment resolution meetings Attended RAB Meetings as scheduled |

State Project Manager Manjulika Chakrabarti
 E-mail/Phone No. mchakrabar@rb4.swrcb.ca.gov (213)576-6722 Date: 12/31/00

DoD Project Manager Mike Metro for Debra Castens
 E-mail/Phone No. dcastens@spl.usace.army.mil / (213) 452-3993 Date: 11/10/99

**F was submitted as worksheet

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

Two-Year Joint CA Execution Plan

| | | |
|--------------------------------------|-------------------------------|--------------------|
| Service _____ | DERP-FUDS | |
| Name of Installation _____ | OXNARD AFB-CAMARILLO | Funding Source |
| Project, or Operable Unit _____ | J09CA0126 Landfill & Burn Pit | |
| State _____ | CA | DERP _____ X _____ |
| Water Board Lead, PCA #169-43 | | BRAC 1 _____ |
| | | BRAC 2 _____ |
| | | BRAC 3 _____ |
| | | BRAC 4 _____ |

CA Period 1 JUL 00 – 30 JUN 02

| | | |
|---|---|--|
| YEAR 1 | July 1, 2000 to June 30, 2001 | |
| <u>Milestones</u> HTRW Project RI/FS | <u>Tasks</u> Draft/Final Reports Decision Document Community Relations | <u>State DSMOA Services</u> <ul style="list-style-type: none"> Conduct technical review [2] Screen alternatives [3] Review closure request [3] Attend comment resolution meetings [3] |

| | | |
|---|--|--|
| YEAR 2 | July 1, 2001 to June 30, 2002 | |
| <u>Milestones</u> HTRW Project Long Term Monitoring | <u>Tasks</u> Workplan Report | <u>State DSMOA Services</u> <ul style="list-style-type: none"> Conduct technical reviews [3] Attend comment resolution meetings [3] |

State Project Manager Peter Raftery
 E-mail/Phone No. praftery@rb4.swrcb.ca.gov / (213) 576-6738 Date: 12/31/00

DoD Project Manager Mike Metro for Debra Castens
 E-mail/Phone No. dcastens@spl.usace.army.mil / (213) 452-3990 Date: 11/10/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN*

Service NAVY
 Name of Installation Defense Fuel Support Point, San Pedro (DFSP)
 Project Operable Unit Sites 3A,3B & 6
 State California
Water Board Lead, PCA # 169-47

Funding Source
 DERP XX
 BRAC 1 _____
 BRAC 2 _____
 BRAC 3 _____
 BRAC 4 _____

CA Period 1 JUL 00 – 30 JUN 02

| |
|--|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
| WORK DESCRIPTION: <ul style="list-style-type: none"> • Install and monitor groundwater monitoring wells at the three IR Sites at DFSP San Pedro (Sites 3A, 3B, and 6) [3] • Long Term Monitoring (LTM) of groundwater underlying sites 3A, 3B and 6 [3] • Conduct an Ecological Risk Assessment [3] • Community Involvement [1] |
| DELIVERABLES: <ul style="list-style-type: none"> • Groundwater Monitoring Well Installation Work Plan (Draft and Final) [3] • Report on the well installation activities (Draft and Final) [3] • LTM Groundwater reports (quarterly) [3] • Ecological Risk Assessment Report (Draft and Final) [3] |
| MEETINGS: <ul style="list-style-type: none"> • RAB Meetings (yearly) [2] • RPM Meetings (as needed) [2] |
| ADDITIONAL STATE ACTIVITIES: <ul style="list-style-type: none"> • Site/Field Visits [2] • Review reports and deliverables [2] • Attend RAB Meetings [2] |

| |
|--|
| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
| WORK DESCRIPTION: <ul style="list-style-type: none"> • Long Term Monitoring (LTM) of the groundwater underlying Sites 3A, 3B, 6 [3] • Evaluate remedial action activities for site 3A [3] • Community Involvement [1] |
| DELIVERABLES: <ul style="list-style-type: none"> • Quarterly monitoring reports (LTM) for Sites 3A, 3B, 6 [3] • Remedial Action Plan (RAP)for the former disposal areas (Draft and Final) [3] • RAP Implementation Reports [3] |
| MEETINGS: <ul style="list-style-type: none"> • RAB Meetings (yearly) [1] • RPM Meetings (as needed) [1] |
| ADDITIONAL STATE ACTIVITIES: <ul style="list-style-type: none"> • Site/Field Visits [1] • Review reports and deliverables [3] |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

SanPedroNavy_E_12-31-01.doc

- | |
|-----------------------------|
| • Attend RAB Meetings [1] |
| |

State Project Manager G Jeffery Hu

E-mail/Phone No. ghu@rb4.swrcb.ca.gov / (213) 576-6736 Date: 12/31/00

DoD Project Manager Ed Dienzo

E-mail/Phone No. dienzoem@efds.w.navy.mil / (619)532-4714 Date: 11/10/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLANService USACE, Sacramento DistrictName of Installation Titan 1A

Funding Source

Project, or Operable Unit Long-Term MonitoringState CaliforniaDERP X**Water Board Lead, PCA # 169-51**

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 1 | July 1, 2000 to June 30, 2001 | |
|-------------------|---|--|
| <u>Milestones</u> | <u>Tasks/Status</u> | <u>State DSMOA Services</u> |
| RI | Finish Remedial Investigation and RI Report Status-[2] | Review and comment |
| Work Plan | Remedial Option Evaluation Work Plan and Action Memo Status-[2] | Review and comment on Work Plan and Action Memo Prepare CEQA documentation. Identify substantive requirements of NPDES permit |
| FS | Feasibility Study-pilot study ongoing Status-[1] | Conduct technical reviews of data and issue comments |
| | Public Meeting (1) Status-[2] | Attend Public Meeting |
| | Meetings (6) Status-[2] | Attend Technical Review Meetings |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| YEAR 2 | July 1, 2001 to June 30, 2002 | |
|-------------------|---|--|
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| FS | Finish pilot study, determine best RA approach Status-[1] | Review technical memorandum that presents pilot study results Issue comment letter |
| FS | | Review and write approval letter |
| RAP | Finalize FS Status-[1] | Review RAP. Meet with the Army to negotiate terms and conditions. Write comment letter. |
| RA (LTM) | Remedial Action Plan Status-[1] | Review and comment on groundwater monitoring reports |
| | Quarterly Groundwater Monitoring (4) Status-[1] | Attend public meeting Attend Technical Review Meetings |
| | Public Meeting (1) Status-[1] | |
| | Meetings Status-[1] | |

State Project Manager James Barton
E-mail/Phone No. bartonj@rb5s.swrcb.ca.gov / (916) 255-3050 _____ Date: 12/27/00 ____

DoD Project Manager Brenda Pedersen
E-mail/Phone No. BPedersen@spk.usace.army.mil / (916) 557- 6771 _____ Date: 12/27/00 ____

-
- For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLANService USACE, Sacramento DistrictName of Installation Titan 1C

Funding Source

Project, or Operable Unit Long-Term MonitoringState CaliforniaDERP _____**Water Board Lead, PCA #169-54**

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 1 | July 1, 2000 to June 30, 2001 | |
|-------------------|---|---------------------------------|
| <u>Milestones</u> | <u>Tasks/Status</u> | <u>State DSMOA Services</u> |
| Closure Report | Abandon wells/fill in USTs Status-[1] | Review Work Plan and comment |
| | Site Closure Report Status-[1] | Review and issue closure letter |
| | Meetings (4) Status-[1] | Attend technical meetings |
| | Public Meeting (1) Status-[1] | Attend public meeting |

| YEAR 2 | July 1, 2001 to June 30, 2002 | |
|-------------------|--|-----------------------------|
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| | Site Closure/ No Further Action Status-[1] | Review and issue comments |
| | Meeting (2) Status-[1] | Attend technical meeting |
| | Public Meeting (1) Status-[1] | Attend public meeting |

State Project Manager James BartonE-mail/Phone No. bartonj@rb5s.swrcb.ca.gov / (916) 255-3050 Date: 12/27/00DoD Project Manager Brenda PetersonE-mail/Phone No. BPedersen@spk.usace.army.mil / (916) 557- 6771 Date: 12/27/00

- For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service USACE, Sacramento District
 Name of Installation Titan 1B
 Project, or Operable Unit Long-Term Monitoring
 State California

Funding Source
 DERP X

Water Board Lead, PCA #169-55

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 1 | July 1, 2000 to June 30, 2001 | |
|-------------------|---|---------------------------------|
| <u>Milestones</u> | <u>Tasks/Status</u> | <u>State DSMOA Services</u> |
| Closure Report | Fill in USTs Status-[2] | Review and comment |
| | Site Closure Report (to include UST Closure Report and RA report) Status-[1] | Review and issue closure letter |
| | Meetings (4) Status-[1] | Attend technical meetings |
| | Public Meeting (1) Status-[1] | Attend public meeting |

| YEAR 2 | July 1, 2001 to June 30, 2002 | |
|-------------------|--|-----------------------------|
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| | No Further Action Status-[1] | |

State Project Manager James Barton
 E-mail/Phone No. bartonj@rb5s.swrcb.ca.gov / (916) 255-3050 Date: 12/27/00

DoD Project Manager Brenda Peterson
 E-mail/Phone No. BPedersen@spk.usace.army.mil / (916) 557- 6771 Date: 12/27/00

For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service USACE, Sacramento District
 Name of Installation D.Q. University
 Project, or Operable Unit Long-Term Monitoring
 State California

Funding Source
 DERP X

Water Board Lead, PCA #169-59

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 1 | July 1, 2000 to June 30, 2001 | |
|--|--|---|
| <p><u>Milestones</u></p> <p>Long-Term Monitoring</p> | <p><u>Tasks/Status</u></p> <p>Quarterly Groundwater Monitoring (4) STATUS-[4]</p> <p>Develop accurate O&M cost estimate for future budgeting STATUS-[4]</p> <p>Periodic review of compliance w/project goals STATUS-[1]</p> <p>Bi-annual meetings (2) STATUS-[1]</p> | <p><u>State DSMOA Services</u></p> <p>Review and comment four times a year on the submitted groundwater monitoring reports.</p> <p>Review current progress and meet with Federal agency to discuss the details and progress of the project.</p> <p>Technical Review Meetings to discuss the contents of the quarterly report and to determine if additional work is required.</p> |
| YEAR 2 | July 1, 2001 to June 30, 2002 | |
| <p><u>Milestones</u></p> <p>Long-Term Monitoring</p> | <p><u>Tasks</u></p> <p>Quarterly Groundwater Monitoring (4) Status-[1]</p> <p>Develop accurate O&M cost estimate for future budgeting Status-[1]</p> <p>Periodic review of compliance w/project goals Status-[1]</p> <p>Bi-annual Meetings (2) Status-[1]</p> | <p><u>State DSMOA Services</u></p> <p>Review and comment four times a year on the submitted groundwater monitoring reports.</p> <p>Review current progress and meet with Federal agency to discuss the details and progress of the project.</p> <p>Technical Review Meetings to discuss the contents of the quarterly report and to determine if additional work is required.</p> |

State Project Manager James Barton
 E-mail/Phone No. (916) 255-3050 bartonj@rb5s.swrcb.ca.gov Date: 12/27/00

DoD Project Manager Peter Broderick Program Manager for Jerry Vincent
 E-mail/Phone No. (916) 557-7430 pbroderick@spk.usace.army.mil Date: 12/27/00

*For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; and [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service Air Force Base Conversion Agency
 Name of Installation George AFB Funding Source _____
 Project, or Operable Unit **Operable Unit Three**
 State CA DERP _____
 BRAC X
 BRAC 2 _____
 BRAC 3 _____
 BRAC 4 _____

List all major milestones occurring at the installation for years 1 and 2

| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
|---|
| |
| Draft BWGWM report – Oct 00 [2] |
| Draft BWGWM report – April 01 [2] |
| Draft long-term maintenance and monitoring plan – landfill [2] |
| Revised final RD/RA work plan [2] |
| Draft SAP addendum accelerated action site O&M sampling [2] |
| Draft revised accelerated action site O&M manual [2] |
| Site WP-17 Draft confirmation sampling/closure report [2] |
| Site FT-19a Draft confirmation sampling/closure report [2] |
| Status review meetings [1] |
| OT-51 Remediation Optimization Evaluation Report [1] |
| Site 19c Draft confirmation sampling work plan/SAP addendum [1] |
| OT-69 Remedial Evaluation [2] |
| Field oversight [1] |
| |
| Level of effort: Same |

| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
|---|
| |
| Draft BWGWM report – Oct 01 [2] |
| Draft BWGWM report – April 02 [1] |
| Field oversight and sampling activities [1] |
| Ground water monitoring reports – landfill x 2 per FY [1] |
| Draft BWGWM SAP Addendum – Oct 01 [1] |
| Draft BWGWM SAP Addendum – April 02 [2] |
| Status review meetings [1] |
| |
| Level of effort: Same |

State Project Manager /s/ Mike Plaziak Date: 01/04/00

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

DoD Project Manager /s/ _____ Date: 12/15/99
 (Recreated from 02/29/00 FAX copy)

TWO-YEAR JOINT CA EXECUTION PLAN

Service Air Force Base Conversion Agency
 Name of Installation George AFB Funding Source _____
 Project, or Operable Unit **Operable Unit Two**
 State CA DERP _____
 BRAC X
 BRAC 2 _____
 BRAC 3 _____
 BRAC 4 _____

List all major milestones occurring at the installation for year 1 and 2

| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 | |
|--|--|
| Pilot Study SVE workplan (EE/CA) [2] | |
| Status review meetings [1] | |
| Technical report O&M [1] | |
| Field oversight and sampling activities [1] | |
| Ground water monitoring reports x 2 per FY 1= [2]; 2 = [2] | |
| FT-20 Data gaps TCE investigation WP [2] | |
| PP/FS/ROD [1] | |
| | |
| | |
| | |
| Level of effort: Same | |

| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 | |
|--|--|
| Ground water monitoring reports x 2 per FY [2] & [1] | |
| Status review meetings [1] | |
| Field oversight and sampling activities [1] | |
| Upgraded SVE Work Plan [1] | |
| O&M Reports [1] | |
| | |
| | |
| Level of effort: Lower | |

State Project Manager /s/ Mike Plaziak Date: 01/04/00
 DoD Project Manager /s/ _____ Date: 12/15/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**
 Status Legend:
 [1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

(Recreated from 02/29/00 FAX copy)

TWO-YEAR JOINT CA EXECUTION PLAN

Service Air Force Base Conversion Agency
 Name of Installation George AFB Funding Source
 Project, or Operable Unit **Operable Unit One**
 State CA DERP _____
 BRAC X
 BRAC 2 _____
 BRAC 3 _____
 BRAC 4 _____

List all major milestones occurring at the installation for years 1 and 2

| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
|---|
| Remediation Process Optimization Report [1] |
| System performance and monitoring reports x 4 per FY 2 = [2]; 2 = [2] |
| Status review meetings [1] |
| System upgrade and modification work plans [1] |
| Field oversight and sampling activities [1] |
| Ground water monitoring reports x 2 per FY 1 = [2]; 1 = [2] |
| Data Gaps Investigation [1] |
| 5 year ROD review (Jan 2001) [4] |
| |
| |
| |
| Level of effort: Same |

| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
|--|
| System performance and monitoring reports x 4 per FY 2@ [2] & 2@ [1] |
| System upgrade and modification workplans [1] |
| Ground water monitoring reports x 2 per FY [2] + [1] |
| Field oversight and sampling activities [1] |
| Status review meetings [1] |
| Data Gaps Investigations [1] |
| OP&S Review |
| |
| |
| Level of effort: Lower |

State Project Manager /s/ Mike Plaziak Date: 01/04/00
 DoD Project Manager /s/ Date: 12/15/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**
 Status Legend:
 [1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

Water Board Lead, PCA # 166-65

TWO-YEAR JOINT CA EXECUTION PLAN

| Name of Installation, Project, or Operable Unit | | Funding Source | | |
|---|--|-----------------------|---|--|
| Marine Corps Air Ground Combat Center, (MCAGCC Twentynine Palms, California) | | DERA | X | |
| | | BRAC | | |
| | | BRAC II | | |
| Service | | BRAC III | | |
| NAVY | | BRAC IV | | |
| List all major milestones occurring at the installation for current year and years 1 and 2. | | | | |
| | | | | |
| CURRENT YEAR (FY 99/00) | | | | |
| Abandon monitoring well (and/or soil vents, or gas monitoring points) at IR Sites: 2, 3, 17 Alpha, 17 Bravo, 17 Charlie, 19, 22, and former Mainside UST sites at buildings 1400, 1420, 1440, 1573, 1630. The well abandonment is dependent on funding and may continue into 2001 | | | | |
| O & M Bioremediation Facility. | | | | |
| Groundwater monitoring at "sensitive sites". | | | | |
| Removal Action at IR Site 4. | | | | |
| Site Closure. IR Sites 4, 5, 6, 7, 9, 10, 12, 23, 24, 26, 32-39, and 48. | | | | |
| Site Assessment. UST Sites 2024 and 2044. | | | | |
| Site Closure. UST Sites 55, 63, 1816, 2024 and 2044. | | | | |
| MTBE Site Evaluation and Close-outs (113 possible sites). | | | | |
| Monitoring well abandonment reports. | | | | |
| Bioventing investigation/screening at Site 1573. Pursue closure under RCRA. | | | | |
| Removal/remediation at IR Sites: 3, 9, 25, and 30. Pursue closure under RCRA. | | | | |
| Develop UXO program. Implement long term monitoring of ordinance residuals on active ranges. | | | | |
| UXO-OFF Base Responses. | | | | |
| Evaluate and remediate Sites 18 and 1138. Reduce/remove contamination to soil, and implement RNA. Periodically monitor groundwater and soil-gas to track progress of RNA. | | | | |
| Background Concentrations Assessment | | | | |
| | | | | |
| YEAR 1 (FY 00/01) | | | | |
| Abandon monitoring well (and/or soil vents, or gas monitoring points) at IR Sites: 2, 3, 17 Alpha, 17 Bravo, 17 Charlie, 19, 22, and former Mainside UST sites at buildings 1400, 1420, 1440, 1573, 1630. The well abandonment is dependent on | | | | |
| O & M Bioremediation Facility. [3] | | | | |
| Groundwater monitoring at "sensitive sites". [1] | | | | |
| Site Closure. IR Sites 4, 5, 6, 7, 9, 10, 12, 23, 24, 26, 32-39, and 48. [3] | | | | |
| Site Closure. UST Sites 55, 63, 1816, 2024 and 2044. [3] | | | | |
| MTBE Site Evaluation and Close-outs (113 possible sites). [1] | | | | |
| Monitoring well abandonment reports. [3] | | | | |
| Bioventing investigation/screening at Site 1573. Pursue closure under RCRA. [1] | | | | |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| | | | |
|---|------------------|-----------------------|----------|
| Removal/remediation at IR Sites: 3, 9, 25, and 30. Pursue closure under RCRA. [3] | | | |
| Develop UXO program. Implement long term monitoring of ordinance residuals on active ranges. [3] | | | |
| UXO-OFF Base Responses. [3] | | | |
| Evaluate and remediate Sites 18 and 1138. Reduce/remove contamination to soil, and implement RNA. Periodically monitor groundwater and soil-gas to track progress of RNA. [1] | | | |
| Background Concentrations Assessment [1] | | | |
| | | | |
| | | | |
| Name of Installation, Project, or Operable Unit | | Funding Source | |
| Marine Corps Air Ground Combat Center, (MCAGCC Twentynine Palms, California) | | DERA | X |
| | | BRAC | |
| | | BRAC II | |
| Service | | BRAC III | |
| NAVY | | BRAC IV | |
| | | | |
| YEAR 2 (FY 01/02) | | | |
| Abandon monitoring well (and/or soil vents, or gas monitoring points) at IR Sites: 2, 3, 17 Alpha, 17 Bravo, 17 Charlie, 19, 22, and former Mainside UST sites at buildings 1400, 1420, 1440, 1573, 1630. The well abandonment is dependent on O & M Bioremediation Facility. [3] | | | |
| Groundwater monitoring at "sensitive sites". [1] | | | |
| Site Closure. IR Sites 4, 5, 6, 7, 9, 10, 12, 23, 24, 26, 32-39, and 48. [1] | | | |
| Site Closure. UST Sites 55, 63, 1816, 2024 and 2044. [3] | | | |
| MTBE Site Evaluation and Close-outs (113 possible sites). [3] | | | |
| Bioventing investigation/screening at Site 1573. Pursue closure under RCRA. [3] | | | |
| Removal/remediation at IR Sites: 3, 9, 25, and 30. Pursue closure under RCRA. [3] | | | |
| Implement long term monitoring of ordinance residuals on active ranges. [3] | | | |
| UXO-OFF Base Responses. [3] | | | |
| Evaluate and remediate Sites 18 and 1138. Reduce/remove contamination to soil, and implement RNA. Periodically monitor groundwater and soil-gas to track progress of RNA. [1] | | | |
| | | | |
| DTSC Project Manager | Douglas Bautista | Date | 10/12/99 |
| RWQCB Project Manager | David Virginia | Date | 3/9/01 |
| DOD Project Manager | Chris Gonzalez | Date | 9/30/99 |
| | | | |
| Date of Plan or Update | 9/30/99 | | |
| | | | |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN*

Service: Army National Guard
 Name of Installation: Los Alamitos JFTC (formerly AFRC)
 Funding Source: DERA
 Project, or Operable Unit: OU-1, OU-2, & OU-3
 State: California
Water Board Lead, PCA # 169-82

DERP X
 BRAC 1
 BRAC 2
 BRAC 3
 BRAC 4

CA Period 1 JUL 00 – 30 JUN 02

| | |
|--|---|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 | |
| WORK DESCRIPTION: | Complete RI for OU-1, OU-2 & OU-3; Status = 1 |
| | Continue O&M for IRAs in OU-1 and petroleum sites (seven systems); Status = 1 |
| | Complete RI for Petroleum only Sites; Status = 1 |
| | Decision Documents for OU-1 IRAs; Status = 2 |
| DELIVERABLES: | Draft RI Reports for OU-1, OU-2 Status = 3 ; & OU-3; Status = 2 |
| | Draft RI for Petroleum only Sites; Status = 3 |
| | Quarterly GW Monitoring and O&M Reports Status = 1 |
| | Annual Summary GW Monitoring and O&M Reports Status = 2 |
| | Installation Action Plan Status = 2 |
| | |
| MEETINGS: | Monthly RPM meetings; Quarterly RAB Meetings; Required public meeting and public notice Status = 1 |
| | |
| ADDITIONAL STATE ACTIVITIES: | Technical site visits; RMA and GW Monitoring Review: Technical and Regulatory Review, Annual In Progress Review, Annual Partnering meeting Status = 2 for all these activities, except Annual Partnering mtg., for which status = 2 |
| | |
| | |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| |
|--|
| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
| WORK DESCRIPTION: FS and PP for OU-3; Complete an EE/CA for OU-3; Proposed Plan for OU-3; Continue O&M for IRAs in OU-1 and petroleum sites (seven systems) |
| |
| |
| DELIVERABLES: Draft FS/EE/CA Reports for OU-3 (Status = 3) ; Proposed Plan Documents (Status =1); Quarterly GW Monitoring and O&M Reports (Status = 1); Annual Summary GW Monitoring and O&M Reports (Status = 2); Installation Action Plan (Status = 2) |
| |
| MEETINGS: Monthly RPM meetings; Quarterly RAB Meetings; Required public meeting & public notice (Status = 1) |
| |
| ADDITIONAL STATE ACTIVITIES: Technical site visits, RMA and GW monitoring review, technical and regulatory review. (Status = 1) |
| |
| |

State Project Manager John Broderick
 E-mail/Phone No. jbroderic@rb8.swrcb.ca.gov / 909 782-4494_ Date: 12/8/99

DoD Project Manager Guy Romine
 E-mail/Phone No. Guy.Romine@ca.ngb.army.mil 562-795-2821 Date: 8 Dec 1999

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service: **Navy**

Name of Installation: **Outlying Landing Field (OLF) Imperial Beach**

Project or Operable Unit: **Site 6**

State: **California**

Water Board Lead, PCA # 166-77

Funding Source

| | |
|--------|---------------------|
| DERP | <u> X </u> |
| BRAC 1 | <u> </u> |
| BRAC 2 | <u> </u> |
| BRAC 3 | <u> </u> |
| BRAC 4 | <u> </u> |

CA Period 1 JUL 00 – 30 JUN 02

| | | |
|-----------------------------------|--|-----------------------------|
| YEAR 1 | July 1, 2000 to June 30, 2001 | |
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Extended Site Inspection Workplan | Prepare and implement ESI Workplan Status [4] | |

| | | |
|---------------------------------|--------------------------------------|-----------------------------|
| YEAR 2 | July 1, 2001 to June 30, 2002 | |
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Extended Site Inspection Report | Prepare ESI Report Status [4] | |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

Service: **Navy**
 Name of Installation: **Outlying Landing Field (OLF) Imperial Beach**
 Project or Operable Unit: **Site 7**
 State: **California**

Funding Source
 DERP **X**
 BRAC 1
 BRAC 2
 BRAC 3
 BRAC 4

CA Period 1 JUL 00 – 30 JUN 02

| | | |
|-----------------------------------|--|-----------------------------|
| YEAR 1 | July 1, 2000 to June 30, 2001 | |
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Extended Site Inspection Workplan | Prepare and implement ESI Workplan Status [3] | |

| | | |
|---------------------------------|--------------------------------------|-----------------------------|
| YEAR 2 | July 1, 2001 to June 30, 2002 | |
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Extended Site Inspection Report | Prepare ESI Report Status [3] | |

State Project Manager: **Dr. Charles Cheng**
 E-mail/Phone No.: chenc@rb9.swrcb.ca.gov Date: 4 Oct 99
 DoD Project Manager: **Richard G. Mach Jr., P.E.**
 E-mail/Phone No.: machrg@efds.w.navy.mil Date: 4 Oct 99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN*

Service : Marine Corps
 Name of Installation: MCAS Miramar

Project, or Operable Unit _____

State: California Funding Source
Water Board Lead, PCA # 166-78 DERP X
 BRAC 1 _____
 BRAC 2 _____
 BRAC 3 _____
 BRAC 4 _____

CA Period 1 JUL 00 – 30 JUN 02

| |
|---|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
| WORK DESCRIPTION: Site Assessment at UST 1 and Site 10 Atlas Missile Test Facility at MCAS Miramar, San Diego, CA |
| |
| |
| DELIVERABLES: |
| Draft Final and Final Site Assessment Work Plans (4) for UST 1 (IR Site 18) and Site 10 Status [2] |
| Draft Final and Final Site Assessment Reports (4) for UST 1 (IR Site 18) and Site 10 Status [3] |
| Quarterly Groundwater Monitor/Free Product Removal Reports for UST 1 (IR Site 18) Status [3] |
| MEETINGS: (optional) |
| Site Visits and Meetings Status [2] |
| |
| ADDITIONAL STATE ACTIVITIES: |
| Public Outreach Status [1] |
| |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| |
|--|
| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
| WORK DESCRIPTION: |
| Removal Evaluation Activities at UST 1(IR Site 18), MCAS Miramar, San Diego, CA |
| |
| DELIVERABLES: |
| Draft Final and Final Remedial Evaluation Work Plan Status [2] ; Reports (4) for UST 1 (IR Site 18) Status [3] |
| Quarterly Groundwater Monitoring/ Free Product Removal Reports for UST 1 (IR Site 18) Status [3] |
| MEETINGS: (optional) |
| Site Visits and Meetings Status [1] |
| |
| ADDITIONAL STATE ACTIVITIES: |
| Public Outreach |
| |

State Project Manager Laurie Walsh
 E-mail/Phone No. walsl@rb9.swrcb.ca.gov/858-467-2970 Date: 11/1699

DoD Project Manager Sarah Ann Moore
 E-mail/Phone No. mooresa@efds.w.navy.mil/619-532-1235 Date: 11/1699

* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN*

Service Navy
 Name of Installation Fleet Anti-Submarine Warfare Training Center Pacific Funding Source
 Project, or Operable Unit _____
 State California DERP X
Water Board Lead, PCA # 166-82 BRAC 1 _____
 BRAC 2 _____
 BRAC 3 _____
 BRAC 4 _____

CA Period 1 JUL 00 – 30 JUN 02

| |
|---|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
| WORK DESCRIPTION: Continue Groundwater Monitoring at UST Site (Bldg 2 & 10) |
| Start PA/SI NTC IR Site 5 |
| Finalize Removal Site Evaluation IR Site 2 (Former Salvage Yard) |
| DELIVERABLES: Quarterly Groundwater Monitoring Report UST Site 2 (Bldg 2 & 10) Status [2] |
| PA/SI Work Plan NTC IR Site 5 – Draft & Final Status [2] |
| Removal Site Evaluation Report for IR Site 2 – Draft & Final Status [1] |
| MEETINGS: Site Visits (2) [one for each: UST Site 2 (Bldg 2 & 10), IR Site 5] Status [2] |
| Story Board Meetings (2) [one for each: UST Site 2 (Bldg 2 & 10) Status [2] , IR Site 2] Status [1] |
| Negotiation Meetings (2) [one for each: UST Site 2 (Bldg 2 & 10) Status [2] , IR Site 5] Status [1] |
| Review Meetings (2) [one for each: UST Site 2 (Bldg 2 & 10) Status [2] , IR Site 5] Status [1] |
| ADDITIONAL STATE ACTIVITIES: |
| |
| |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| |
|--|
| YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02 |
| WORK DESCRIPTION: Finalize PA/SI NTC IR Site 5 |
| Start Removal Action IR Site 2 |
| |
| DELIVERABLES: PA/SI Report NTC IR Site 5 – Draft & Final Status [1] |
| EE/CA and Action Memorandum IR Site 2 – Draft & Final Status [1] |
| |
| MEETINGS: Site Visits (2) [one for each: IR Site 2, IR Site 5] Status [2] |
| Story Board Meetings (1) [one for IR Site 5] Status [1] |
| Negotiation Meetings (2) [one for each: IR Site 2, IR Site 5] Status [1] |
| Review Meetings (2) [one for each: IR Site 2, IR Site 5] Status [1] |
| ADDITIONAL STATE ACTIVITIES: |
| |
| |

State Project Manager Corey Walsh
 E-mail/Phone No. walsc@swrcb.ca.gov Date: Nov. 16, 1999

DoD Project Manager Monica Ryan
 E-mail/Phone No. ryanms@efds.w.navy.mil Date: Nov. 16, 1999

* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

Appendix E

TWO-YEAR JOINT CA EXECUTION PLAN*

Service : Marine CorpsName of Installation: Marine Corps Recruit Depot, San Diego

Project, or Operable Unit _____

State: California**Water Board Lead, PCA # 166-84**

Funding Source

DERP X

BRAC 1 _____

BRAC 2 _____

BRAC 3 _____

BRAC 4 _____

CA Period (FY00) 1 JUL 00 – 30 JUN 02

| |
|--|
| YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01 |
| WORK DESCRIPTION: Site Assessment and Long Term Monitoring at UST locations UST 5 - Bldg. 514 and UST 3 - former NTC Bldg. 344. (MOA currently under negotiation with NTC Bldg. 344) |
| DELIVERABLES: |
| Draft Final and Final Site Assessment Reports for UST 5 (Bldg. 514 - MCRD Service Station) Status [3] |
| Quarterly Groundwater Monitoring Reports for UST 5 (Bldg. 514) Status [3] |
| Supplemental site characterization/investigation Status [1] |
| Draft Final and Final Monitoring/Remediation Report for UST 3 (Bldg. 344 - Former NTC, NEX Gas Station) Status [3] |
| Biannual Groundwater Monitoring Reports for UST 3 (Bldg. 344) Status [3] |
| MEETINGS: (optional) Status [3] |
| Site Visits and Meetings Status [3] |
| ADDITIONAL STATE ACTIVITIES: |
| Public Outreach Status [1] |

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

| |
|---|
| YEAR 2 – (FY01) FROM 1 JUL 01 TO 30 JUN 02 |
| WORK DESCRIPTION: |
| Remedial Evaluation and Long Term Monitoring at UST locations at MCRD, San Diego, CA |
| DELIVERABLES: |
| Draft and Draft Final Remedial Evaluation Reports for UST 5 (Bldg. 514) Status [3] |
| Quarterly Groundwater Monitoring Reports for UST 5 (Bldg. 514) Status [3] |
| Biannual Groundwater Monitoring Reports for UST 3 (Bldg. 344) Status [3] |
| Supplemental Site Characterization/Investigation Status [1] |
| MEETINGS: (optional) |
| Site Visits and Meetings |
| ADDITIONAL STATE ACTIVITIES: |
| Public Outreach Status [1] |

State Project Manager Corey M. Walsh

E-mail/Phone No. walsc@rb9.swrcb.ca.gov / 858-467-2980 Date: _____

DoD Project Manager Sarah Ann Moore

E-mail/Phone No. mooresa@efds.w.navy.mil / 619-532-1235 Date: _____

- * For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service USN
 Name of Installation FISC Pt. Loma
 Project, or Operable Unit Site 3; Oil Disposal Pits
 State CA

Funding Source
 DERP X
 BRAC 1
 BRAC 2
 BRAC 3
 BRAC 4

Water Board Lead, PCA # 166-91

CA Period 1 JUL 00 – 30 JUN 02

| | | |
|--------------------|--------------------------------------|---|
| YEAR 1 | July 1, 2000 to June 30, 2001 | |
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Site Investigation | Confirmation Sampling | <ul style="list-style-type: none"> • Conduct technical reviews Status [2] • Attend comment resolution meetings Status [2] |
| Site Closure | Closure Report | <ul style="list-style-type: none"> • Conduct technical reviews Status [3] • Attend comment resolution meetings Status [3] |

| | | |
|-------------------|--------------------------------------|-----------------------------|
| YEAR 2 | July 1, 2001 to June 30, 2002 | |
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |

Status: Year 1 work carried over to Year 2. See Narrative Report.

State Project Manager Laurie Walsh
 E-mail/Phone No. walsl@rb9.swrcb.ca.gov Date: 11/02/99

DoD Project Manager Ellen Casados
 E-mail/Phone No. Casadosem@efds.w.navy.mil Date: 11/02/99

-
- For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:
 [1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN*

Service Southwest Division Naval Facilities Engineering Command

Name of Installation NTC San Diego

Funding Source

Project, or Operable Unit _____

State CA

Water Board Lead, PCA # 166-92

DERP _____

BRAC 1 _____

BRAC 2 _____

BRAC 3 XXX

BRAC 4 _____

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 1 | July 1, 2000 to June 30, 2001 | |
|-------------------|--|--|
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| FOST | Final Finding of Suitability to Transfer for Parcel VI, Waterfront & Recreation Area Status [2] | <ul style="list-style-type: none"> Review and approve Final FOST Coordinate with other State Agencies, EPA Attend one comment resolution meeting |
| FOST | Draft and Final FOST for Parcel IIA/IIIA, Harbor Drive, Main Base & Camp Nimitz Status [2] | <ul style="list-style-type: none"> Review and approve Draft and Final FOST Coordinate with other State Agencies, EPA Attend one comment resolution meeting |
| BCP/BP | Draft and Final BCP/BP BRAC Cleanup Plan Status [2] | <ul style="list-style-type: none"> Review and approve Draft and Final Attend one comment resolution meeting |
| FS | Draft and Final Feasibility Study for Site 12 Status [3] | <ul style="list-style-type: none"> Provide ARAR's Coordinate with other State agencies, EPA Review and approve Attend one comment resolution meeting |
| PP | Draft and Final Proposed Plan for Site 12 Status [3] | <ul style="list-style-type: none"> Review and approve Coordinate with other State agencies, EPA Attend one comment resolution meeting |
| Closure Report | Draft and Final Closure Report for Site 15 Status [2] | <ul style="list-style-type: none"> Review and Approve Attend one comment resolution meeting |
| Fact Sheets | (3) Draft Fact Sheets Status [2] | <ul style="list-style-type: none"> Review and provide comments on (3) Draft Fact Sheets |
| Well Closure Plan | Draft and Final Well Closure Plan and Report Status [2] | <ul style="list-style-type: none"> Review and approve Base-wide Well Closure Plan Review and approve Base-wide Well Closure Report |
| RAB | Community Relations Status [2] | <ul style="list-style-type: none"> Attend RAB meetings as scheduled (4 meetings) |
| BCT | BRAC Clean-up Team Meetings Status [1] | <ul style="list-style-type: none"> Participate in (4) BCT Meetings |

State Project Manager Corey Walsh

E-mail/Phone No. walsc@rb9.swrcb.ca.gov (858) 467-2980 Date: 10/7/99

DoD Project Manager Andrea Muckerman

E-mail/Phone No. muckermanam@efds.w.navy.mil Date: 10/7/99

Phone No. (619) 532-4817

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN*

Service Southwest Division Naval Facilities Engineering Command

Name of Installation NTC San Diego

Project, or Operable Unit _____

State CA

Funding Source

DERP _____

BRAC 1 _____

BRAC 2 _____

BRAC 3 XXX

BRAC 4 _____

CA Period 1 JUL 00 – 30 JUN 02

| YEAR 2 | | July 1, 2001 to June 30, 2002 | |
|-------------------|--|---|--|
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> | |
| ROD | Draft and Final ROD for Site 12 Status [3] | <ul style="list-style-type: none"> Review and approve Coordinate with other State agencies, EPA Attend one comment resolution meeting | |
| RD | Draft and Final RD for Site 12 Status [3] | <ul style="list-style-type: none"> Review and approve Coordinate with other State agencies, EPA Attend one comment resolution meeting | |
| BCP/BP | Draft and Final BCP/BP Status [3] | <ul style="list-style-type: none"> Review and approve Draft and Final Attend one comment resolution meeting | |
| FOST | Draft and Final FOST for Parcel IIIB/VII Status [3] | <ul style="list-style-type: none"> Review and approve Draft and Final FOST Coordinate with other State Agencies, EPA Attend one comment resolution meeting | |
| RAB | Community Relations Status [1] | <ul style="list-style-type: none"> Attend RAB meetings as scheduled (4 meetings) | |
| BCT | BRAC Clean-up Team Meetings Status [1] | <ul style="list-style-type: none"> Participate in (4) BCT Meetings | |

State Project Manager Corey Walsh

E-mail/Phone No. walsc@rb9.swrcb.ca.gov (858) 467-2980 Date: 10/7/99

DoD Project Manager Andrea Muckerman

E-mail/Phone No. muckermanam@efds.w.favfac.navy.mil Date: 10/7/99

Phone No. (619) 532-4817

* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.

TWO-YEAR JOINT CA EXECUTION PLAN

Service NAVY
 Name of Installation Survival, Evasion, Resistance, and Escape Camp (SERE)
 (Warner Springs) Funding Source: DERP
 Project, or Operable Unit Site 1, SERE Camp Landfill
 State California
Water Board Lead, PCA # 166-97

CA Period 1 JUL 00 – 30 JUN 02

| | | |
|-------------------------------------|--|--|
| YEAR 1 | July 1, 2000 to June 30, 2001 | |
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Landfill Monitoring and Maintenance | - Landfill Monitoring and Maintenance Status [2] | <ul style="list-style-type: none"> Review annual monitoring and maintenance report. |

| | | |
|-------------------------------------|--|--|
| YEAR 2 | July 1, 2001 to June 30, 2002 | |
| <u>Milestones</u> | <u>Tasks</u> | <u>State DSMOA Services</u> |
| Landfill Monitoring and Maintenance | - Landfill Monitoring and Maintenance Status [1] | <ul style="list-style-type: none"> Review annual monitoring and maintenance report. |

State Project Manager Charles Cheng
 E-mail/Phone No. chenc@rb9.swrcb.ca.gov / (858) 627-3930 Date: 12/2/99

DoD Project Manager Mark Bonsavage
 E-mail/Phone No. bonsavagemj@efds.w.navy.mil/556-7315 Date: 12/2/99

For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual

Date of Plan or Update: November 30, 1999

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on **BOTH Year 1 Table AND Year 2 Table.**

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed; or [4] Will Not Be Performed.